

```

graph TD
    110[PREPROCESSING MODULE] -- 115 APPLICATION PACKAGE --> 120[SERVER]
    120 --> 130((NETWORK))
    130 --> 140[CLIENT]
    130 --> 150[CLIENT]
    130 --> 160[CLIENT]
    100((100)) --> 130
  
```

Diagram 100 illustrates a network architecture. A PREPROCESSING MODULE (110) is connected to a SERVER (120) via an APPLICATION PACKAGE (115). The SERVER (120) is connected to a NETWORK (130). The NETWORK (130) is connected to three CLIENTS (140, 150, 160). A reference numeral 100 points to the NETWORK (130).

FIG. 1

00621"50E/2/50

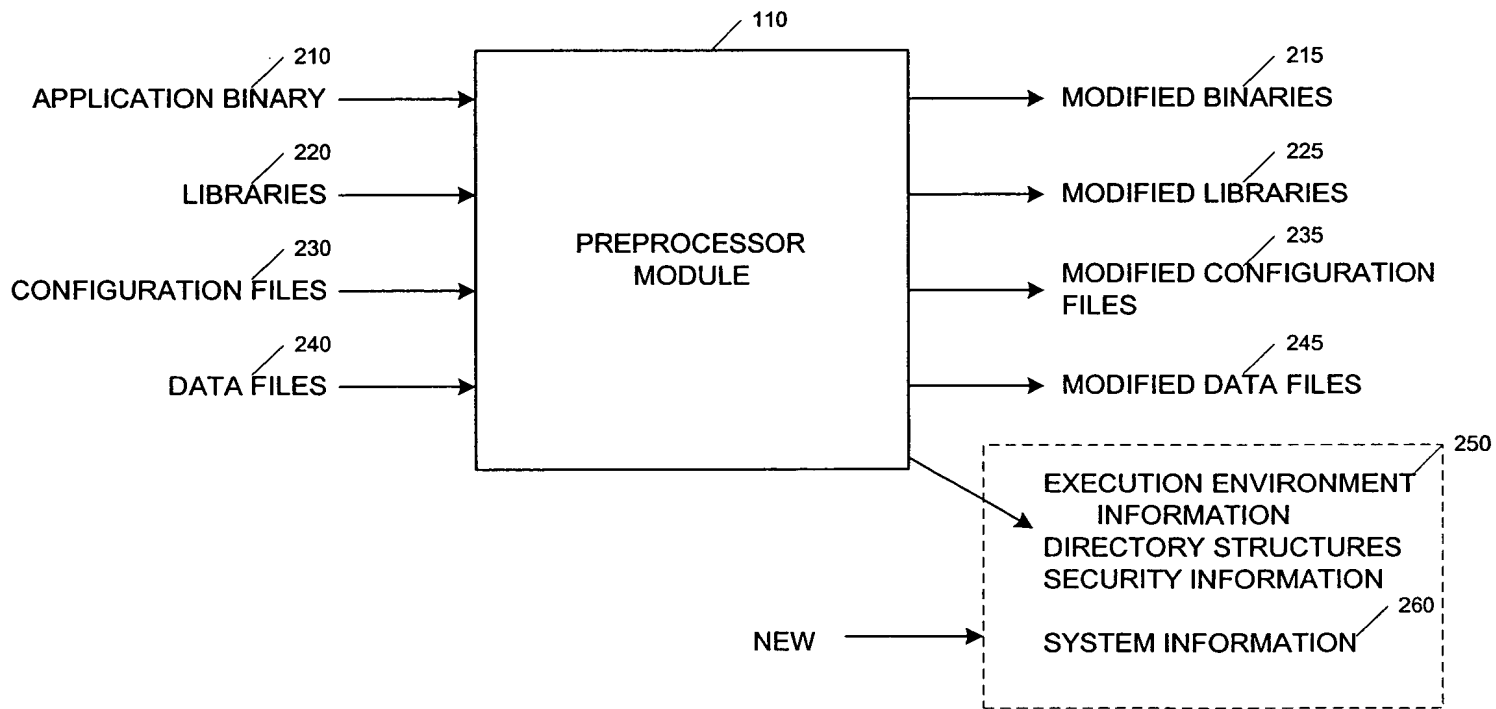


FIG. 2

NORMAL EXECUTION

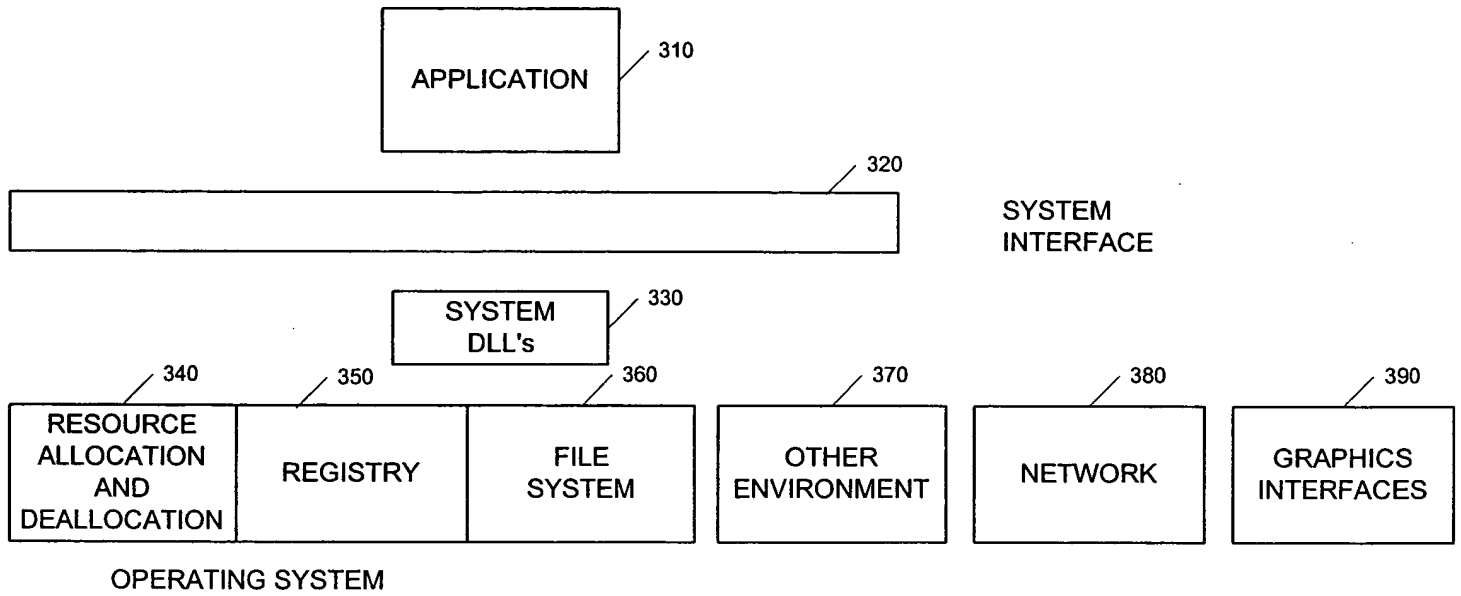


FIG. 3

SECURE EXECUTION

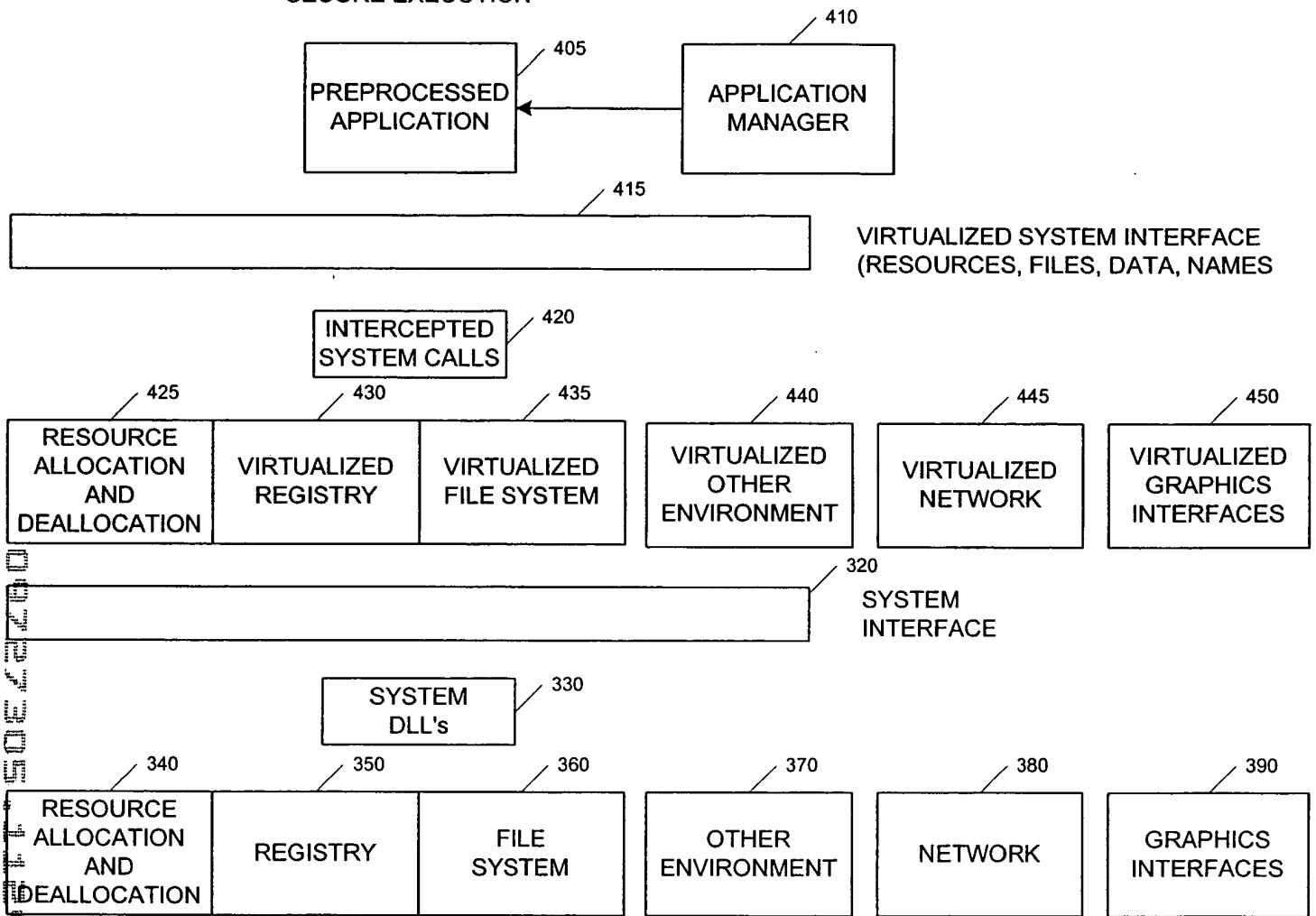


FIG. 4

BEGIN

COMPILE SOURCE
CODE INTO OBJECT CODE

PREPROCESS APPLICATION PACKAGE FOR EXECUTION IN THE SECURE CLIENT ENVIRONMENT	
---	--

APPLICATION MANAGER ON CLIENT RETRIEVES
MODIFIED OBJECT CODE FROM SERVER

INITIALIZE APPLICATION PACKAGE AND PATCH LIBRARIES

1	VIRTUALIZE INTERCEPTED CALLS	2
2	DURING EXECUTION	3

TRANSMIT RESULTS TO SERVER

```

graph TD
    Start([START]) --> Read[READ]
    Read --> Print[PRINT]
    Print --> Return([RETURN])
    Return --> End([END])

```

FIG. 5

A

520

00621-50E/2/50

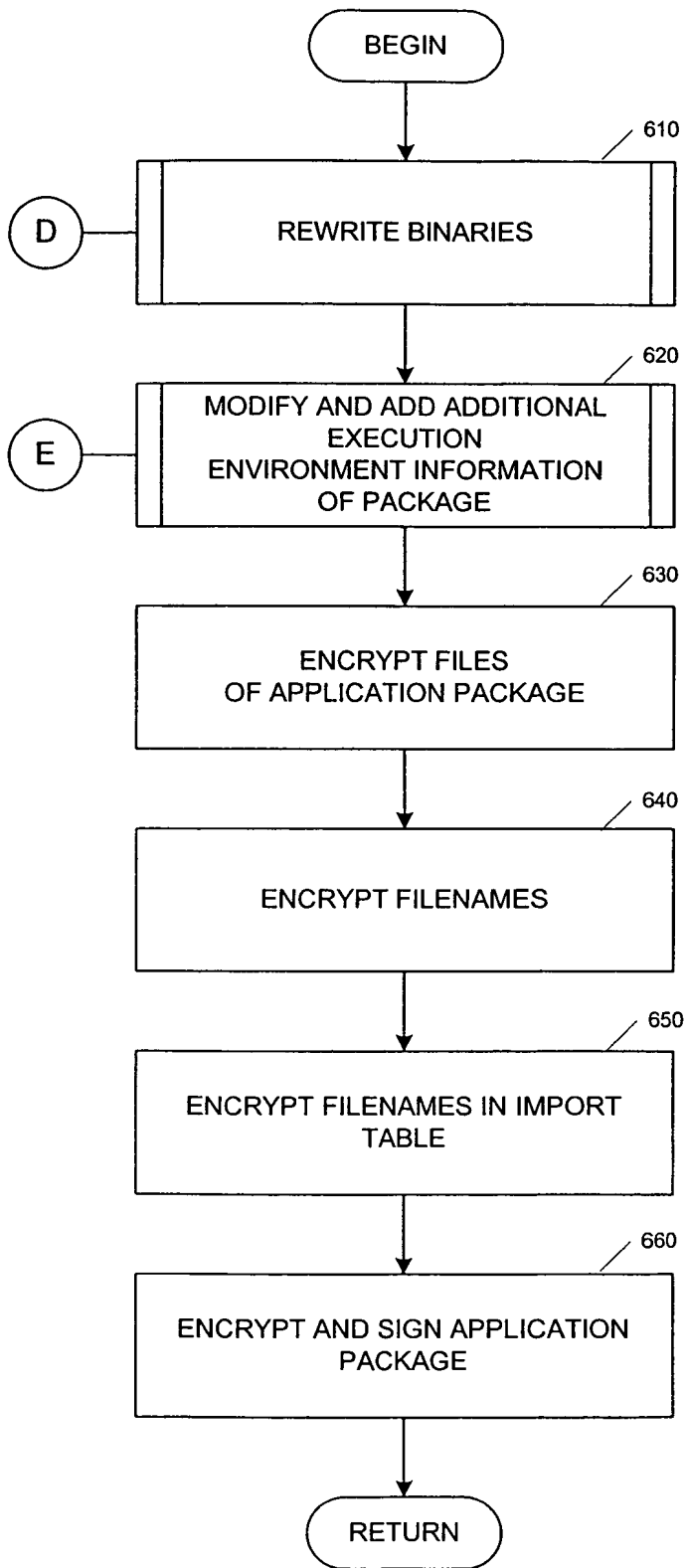
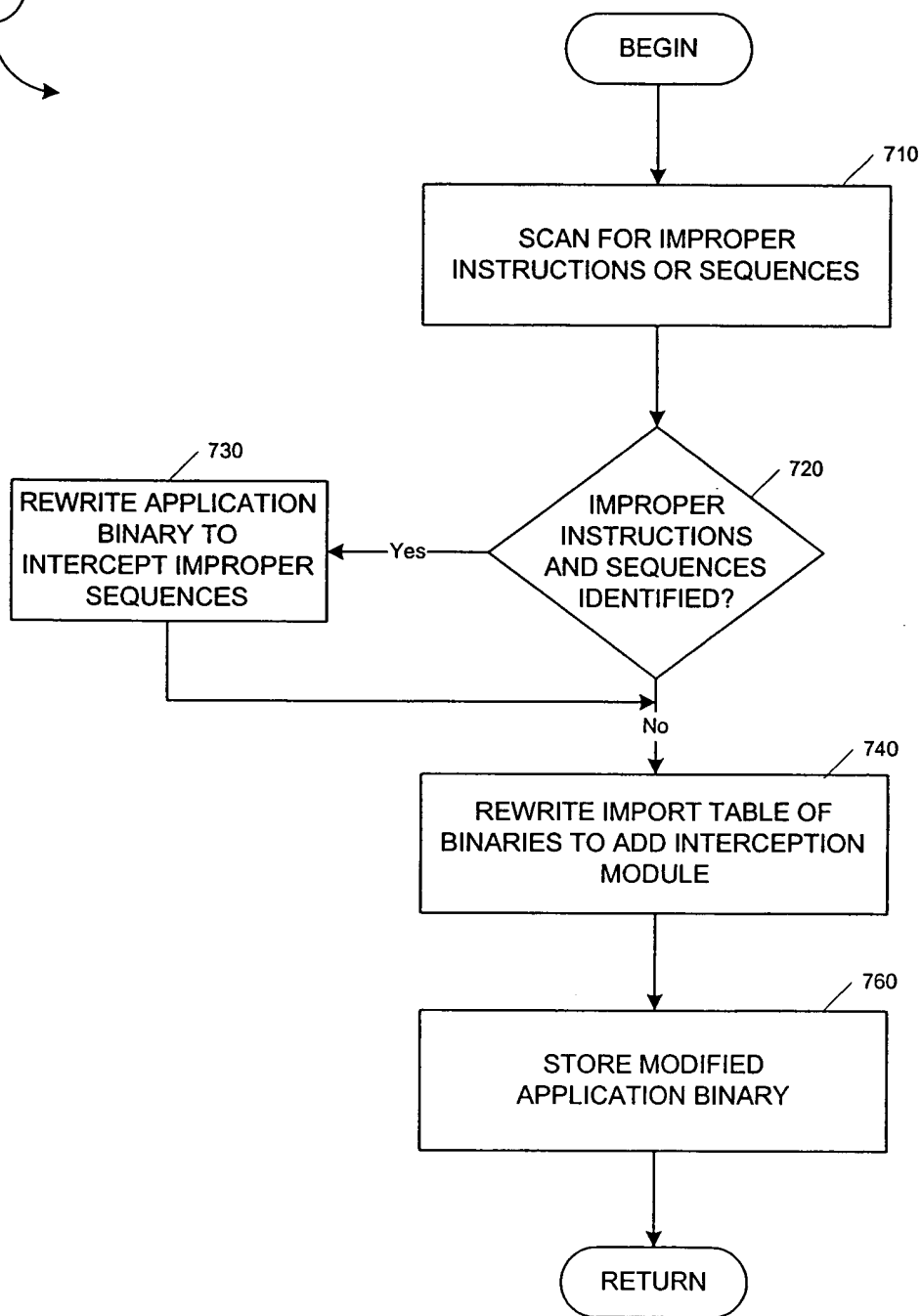


FIG. 6

D 610



00627305-112900

FIG. 7

00627T" 50E/2260

E 620

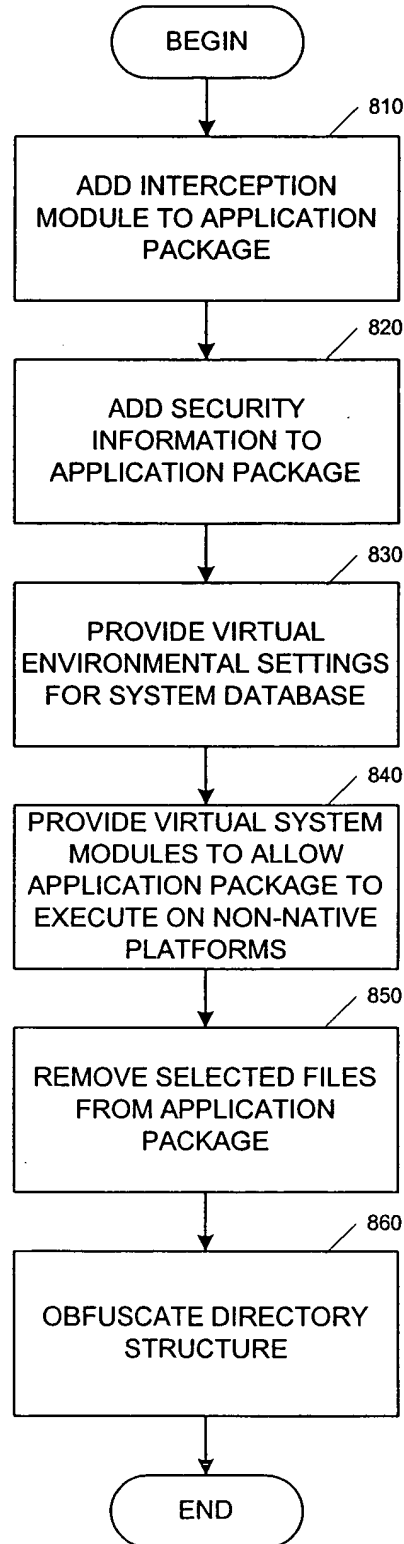


FIG. 8

00627305-112900

B 540

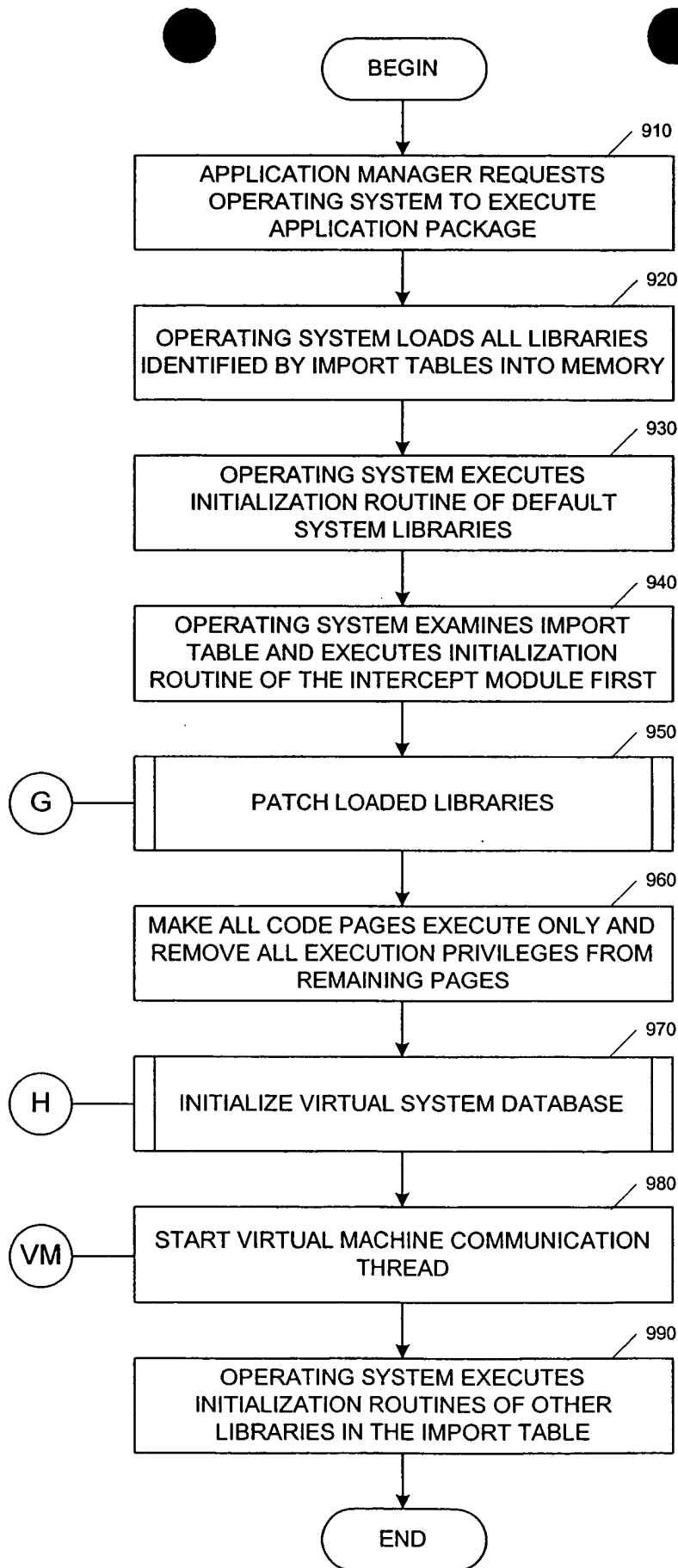


FIG. 9

G 950

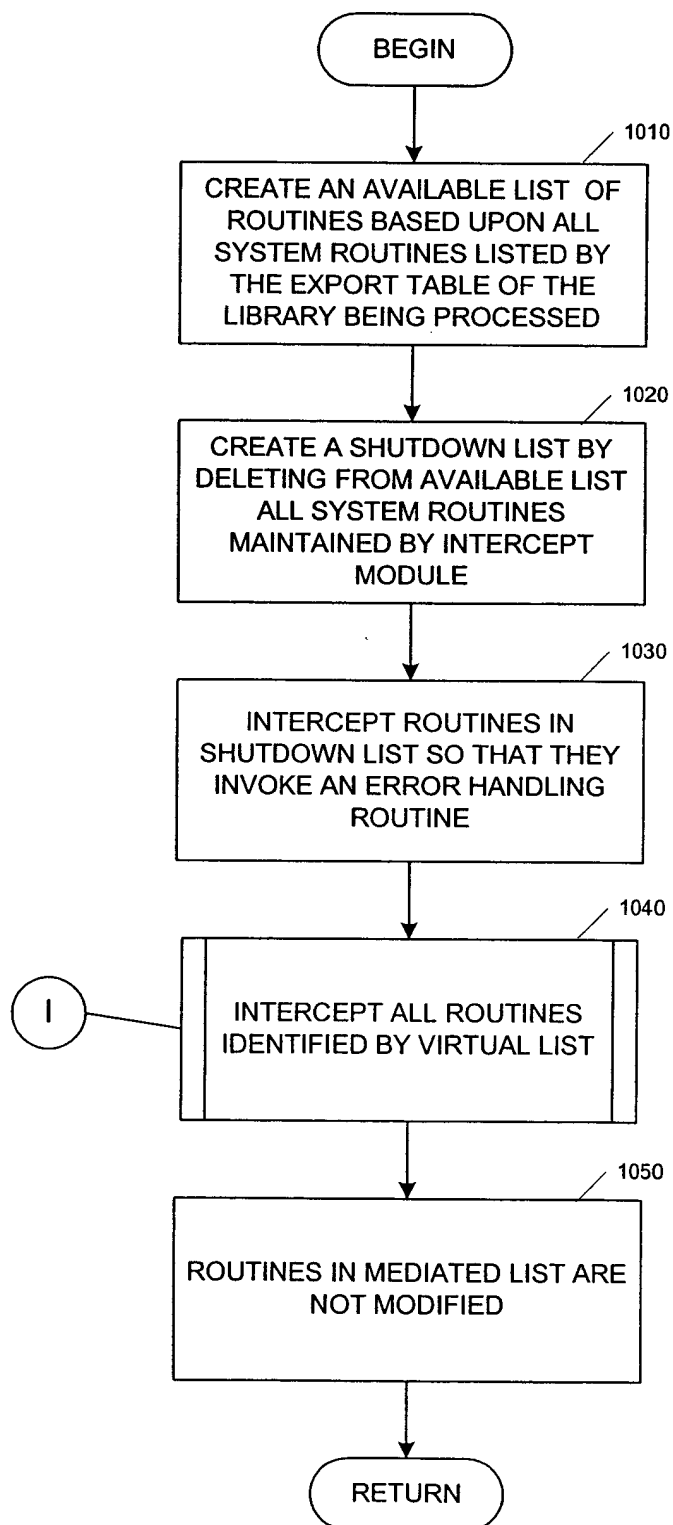


FIG. 10



FIG. 11

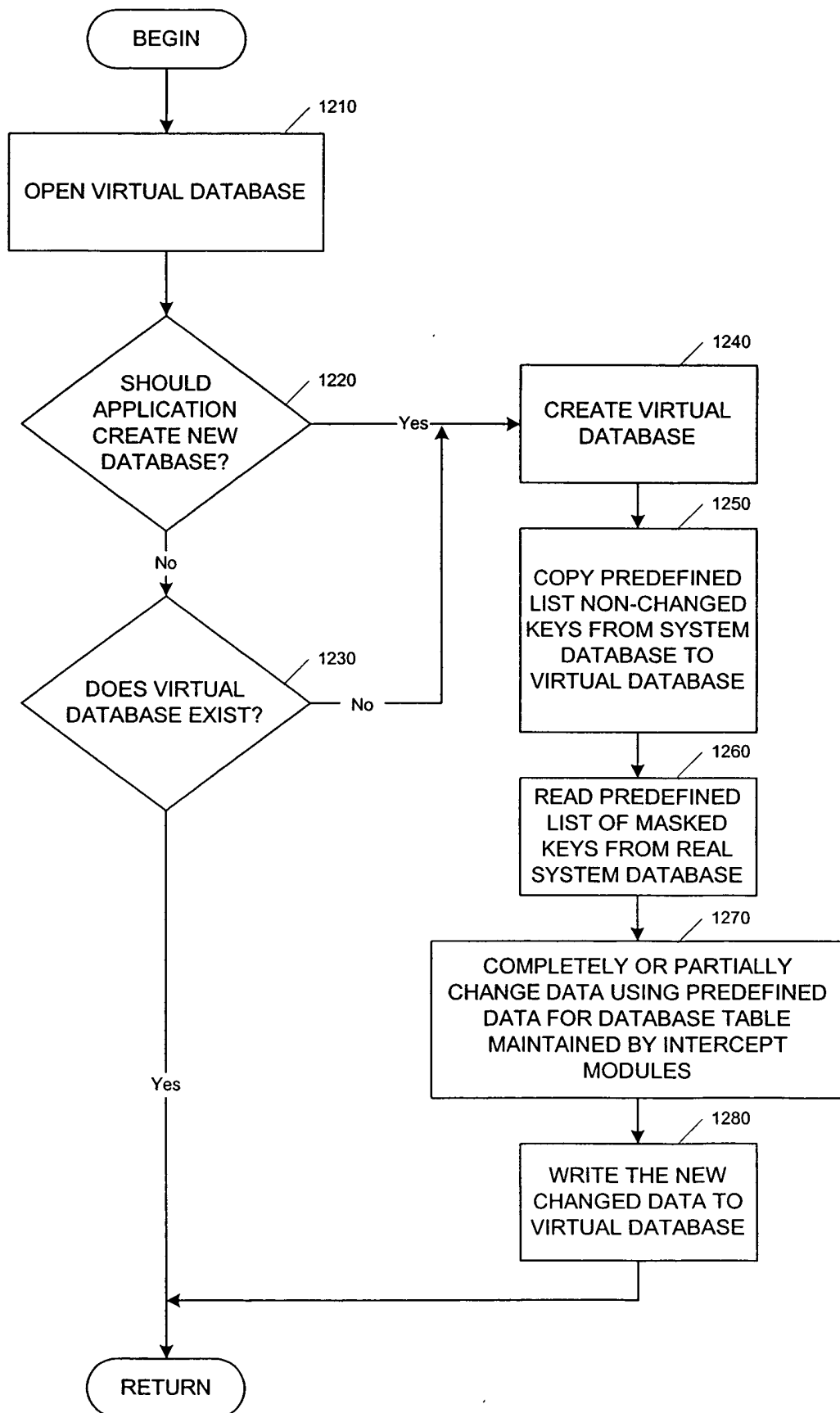


FIG. 12

09727305.112900

C 550

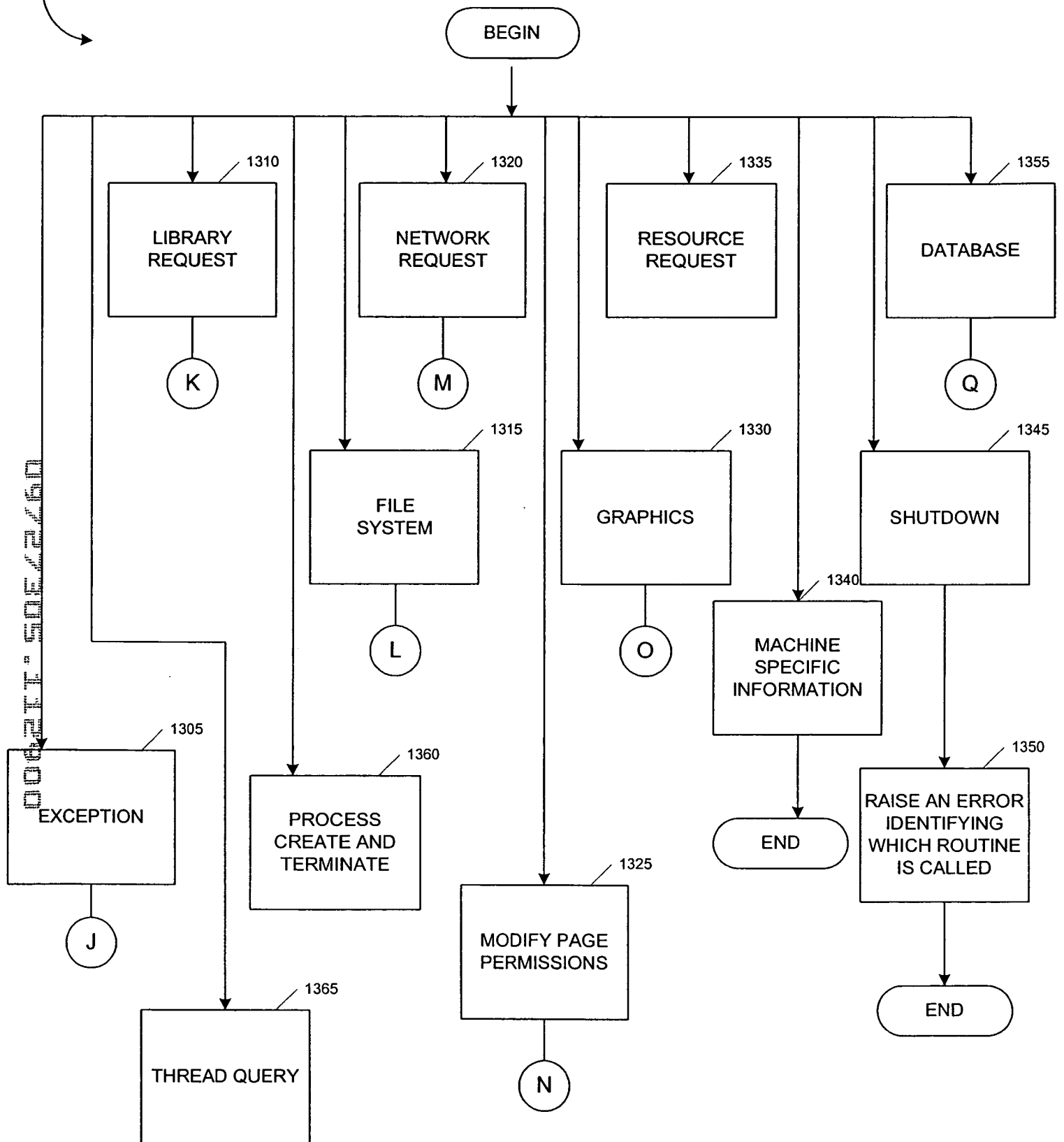


FIG. 13

L

0062T"50E2260

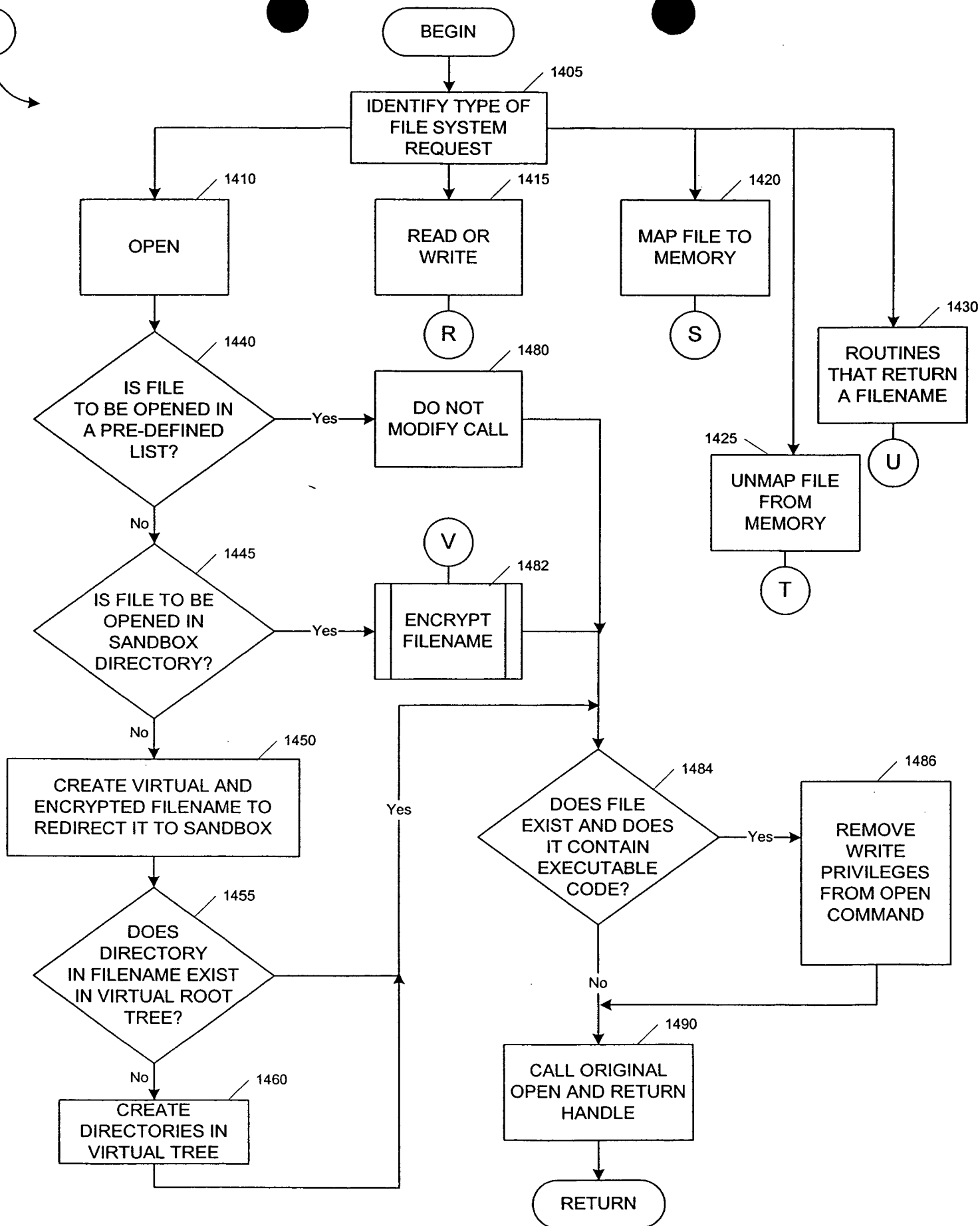


FIG. 14

09727305-112900

J

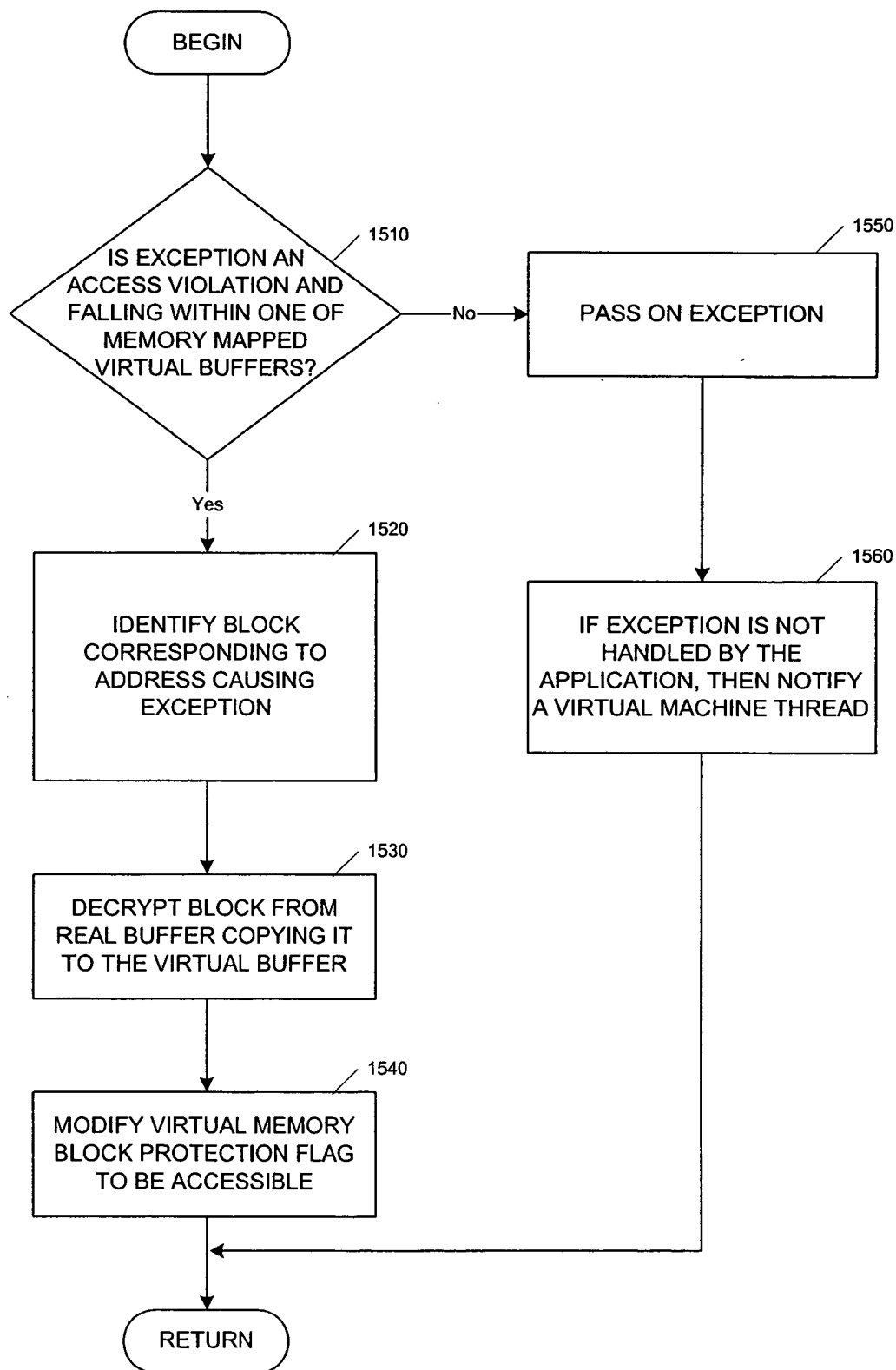


FIG. 15

00627305-11900

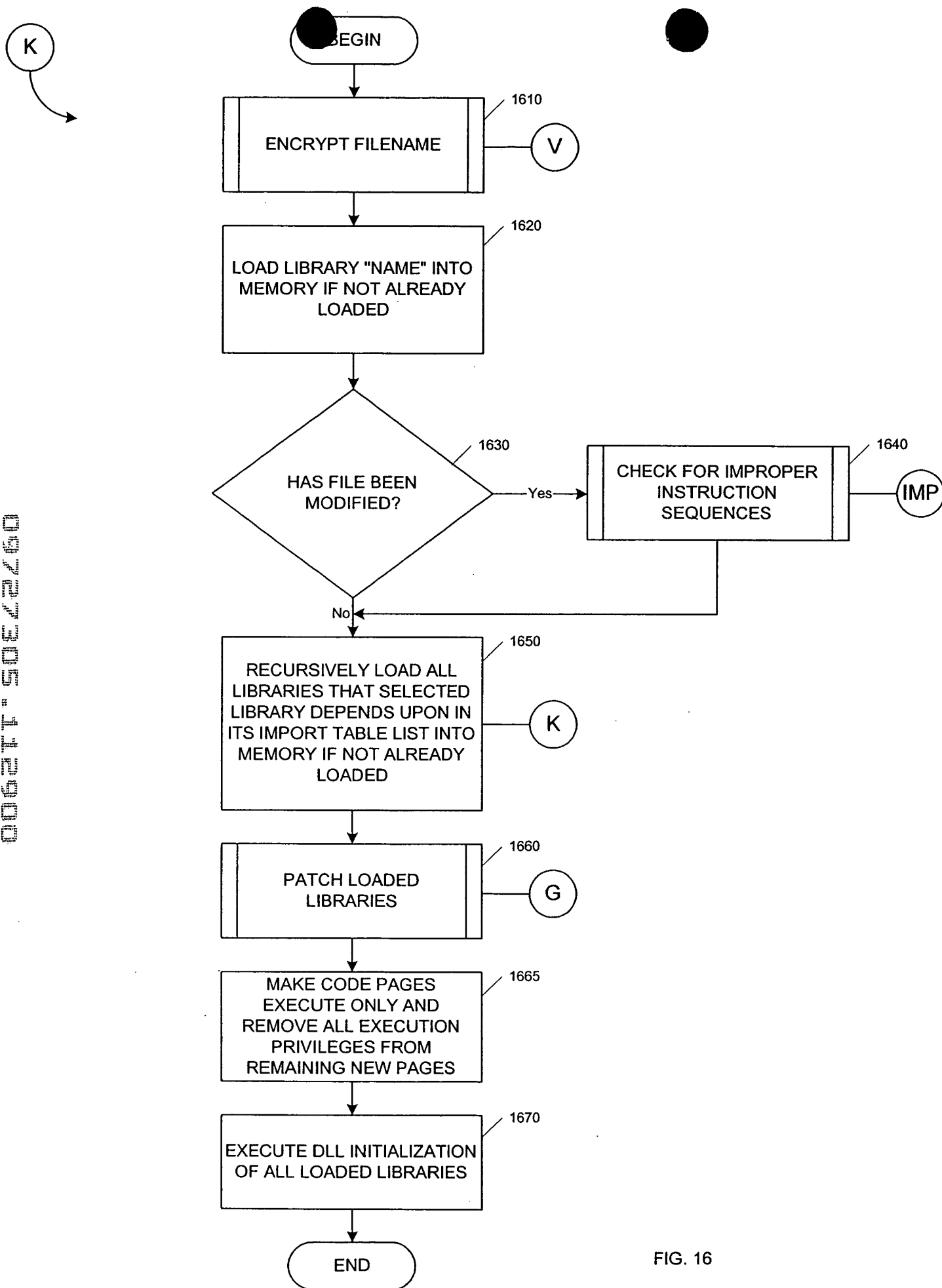


FIG. 16

09727305-112900

IMP

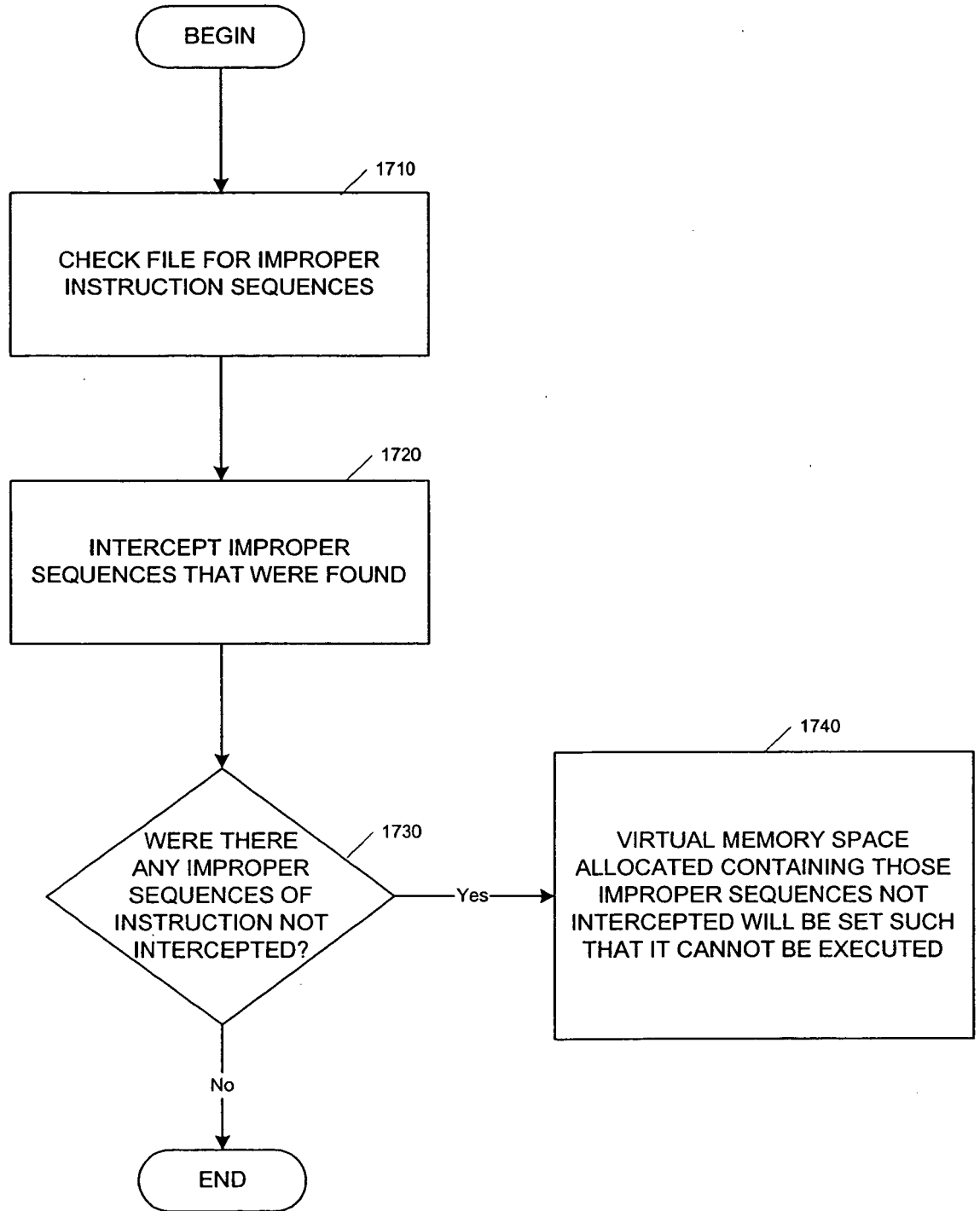
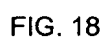


FIG. 17

[illegible]

AAA

00621150E/2/60

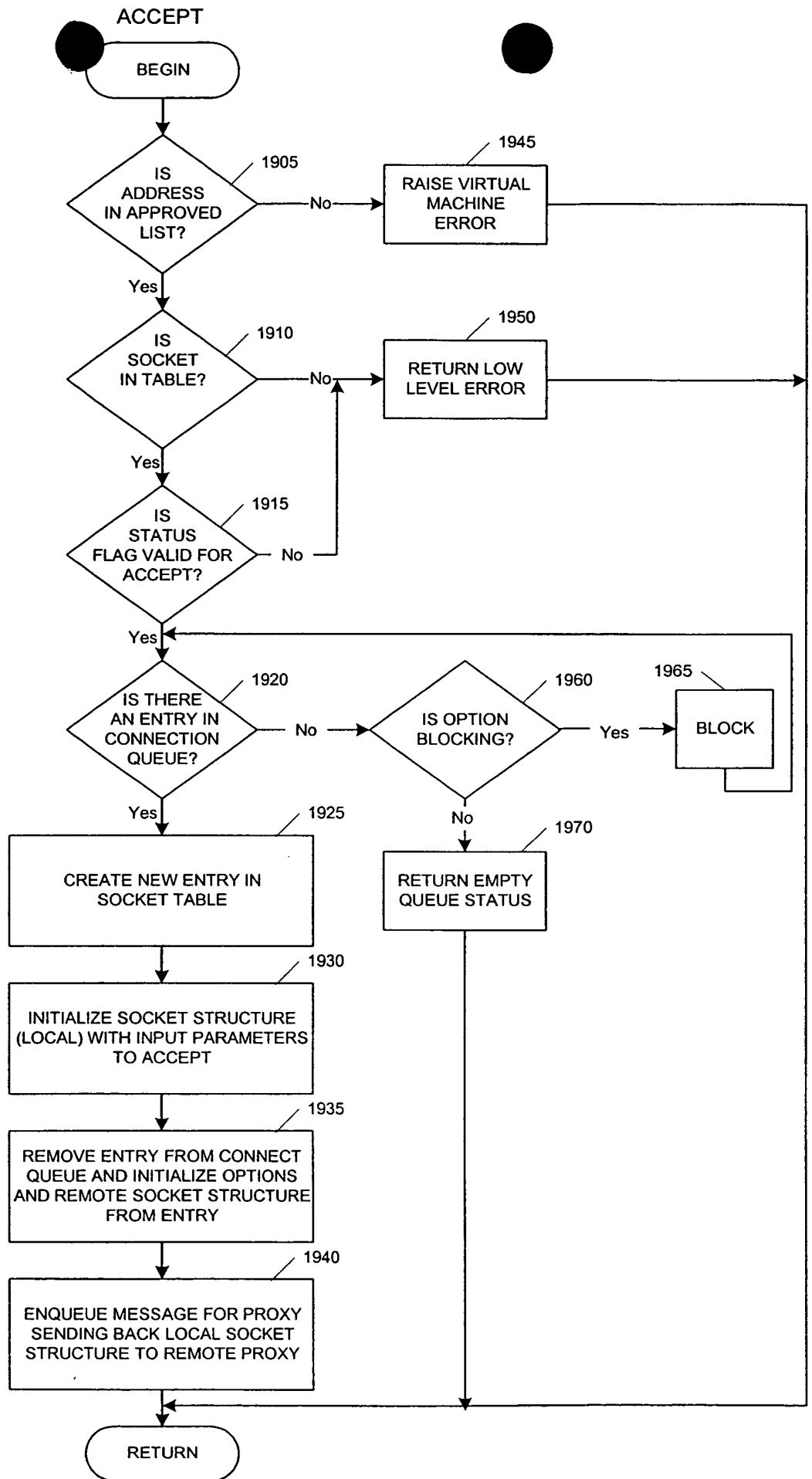


FIG. 19

BBB

006627305.13900

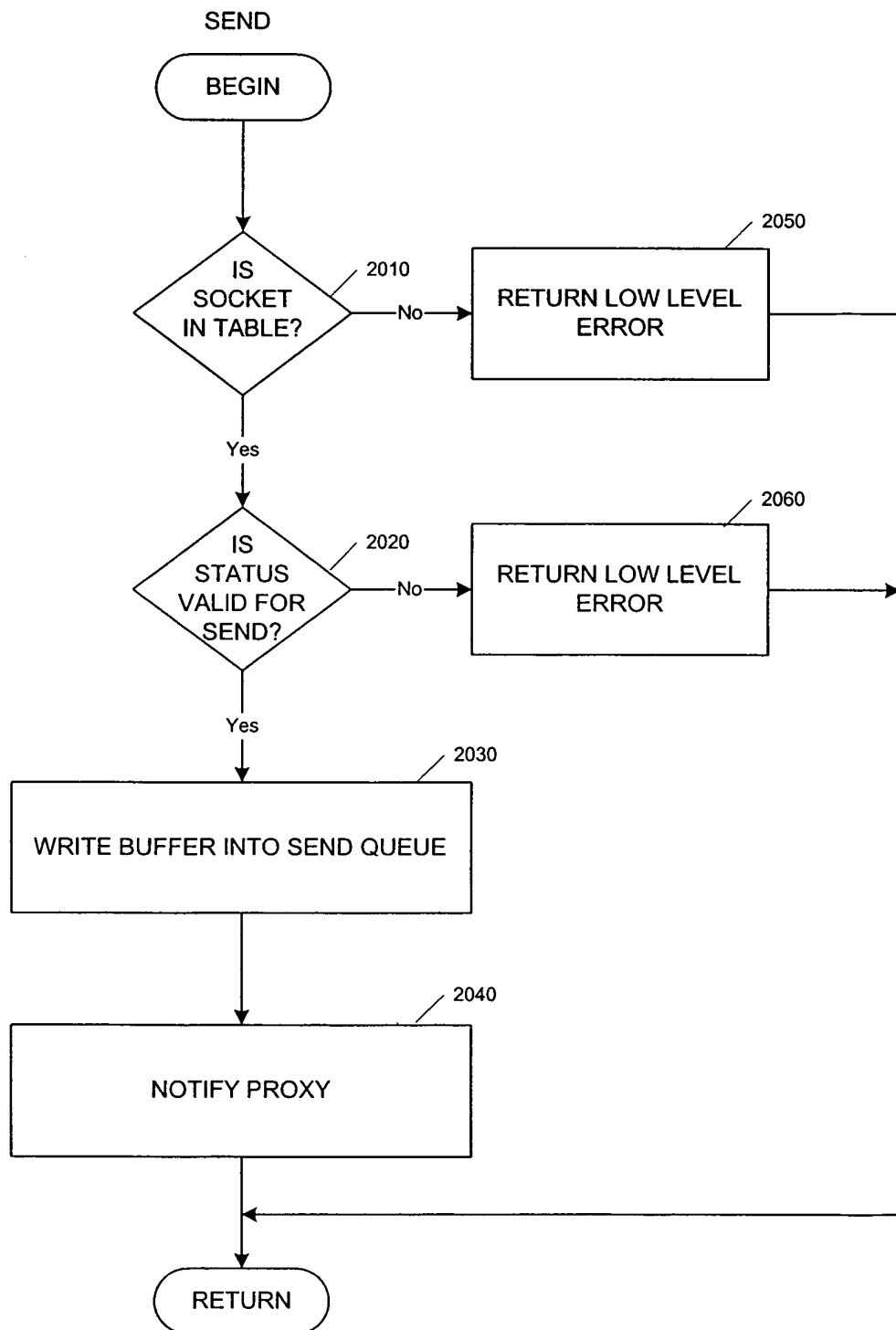


FIG. 20

CCC

005211-50E/2260

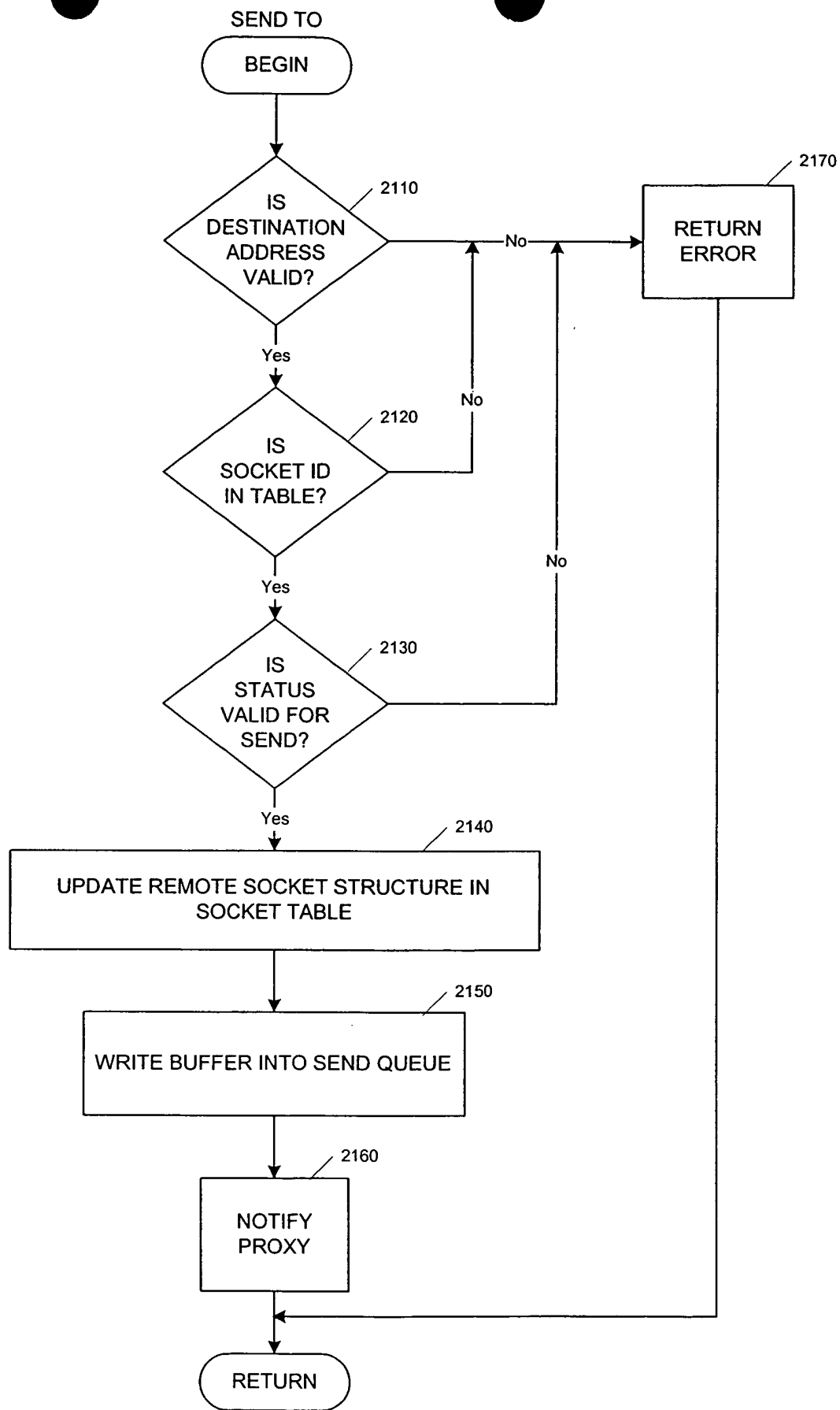


FIG. 21

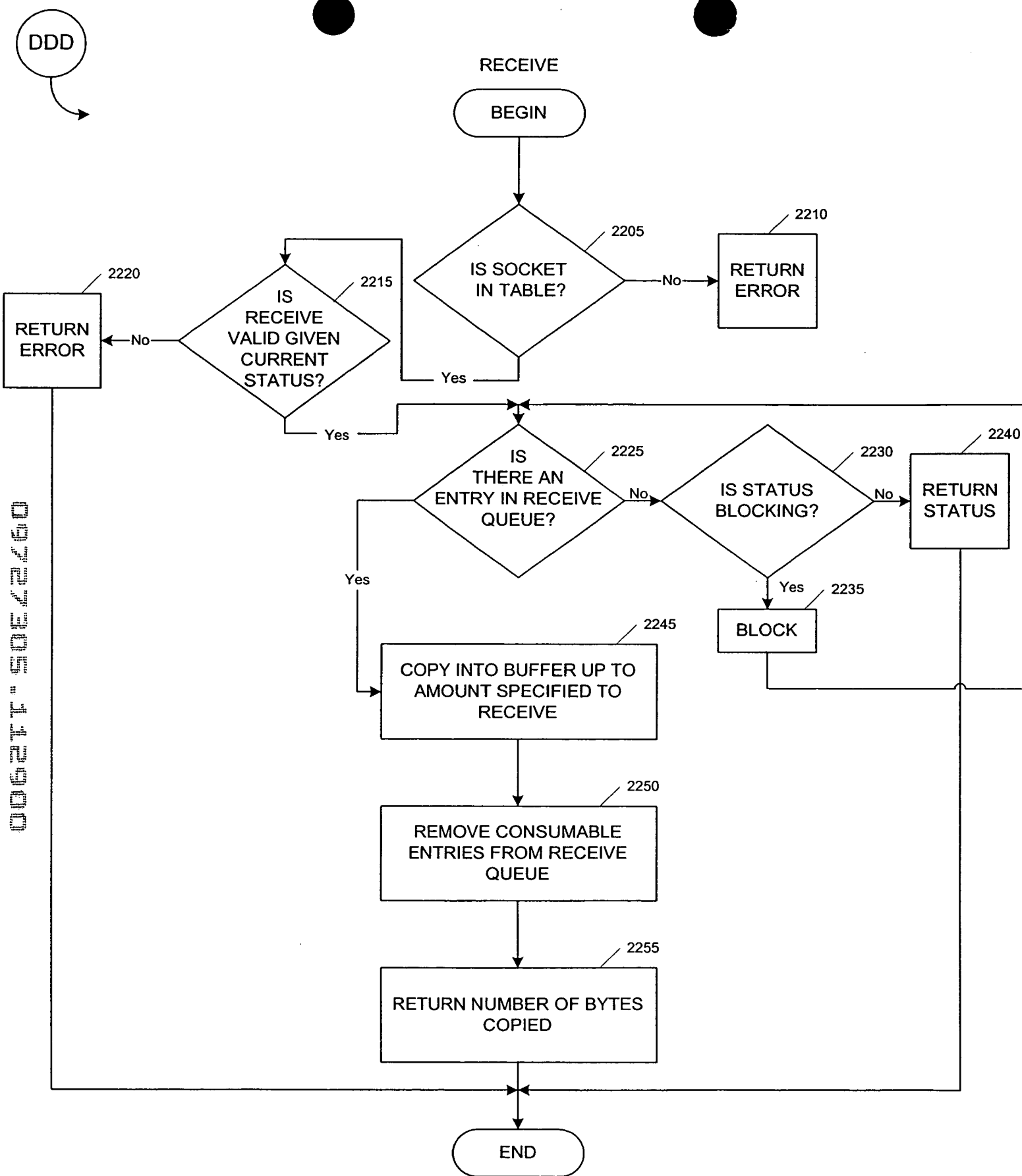


FIG. 22

EEE

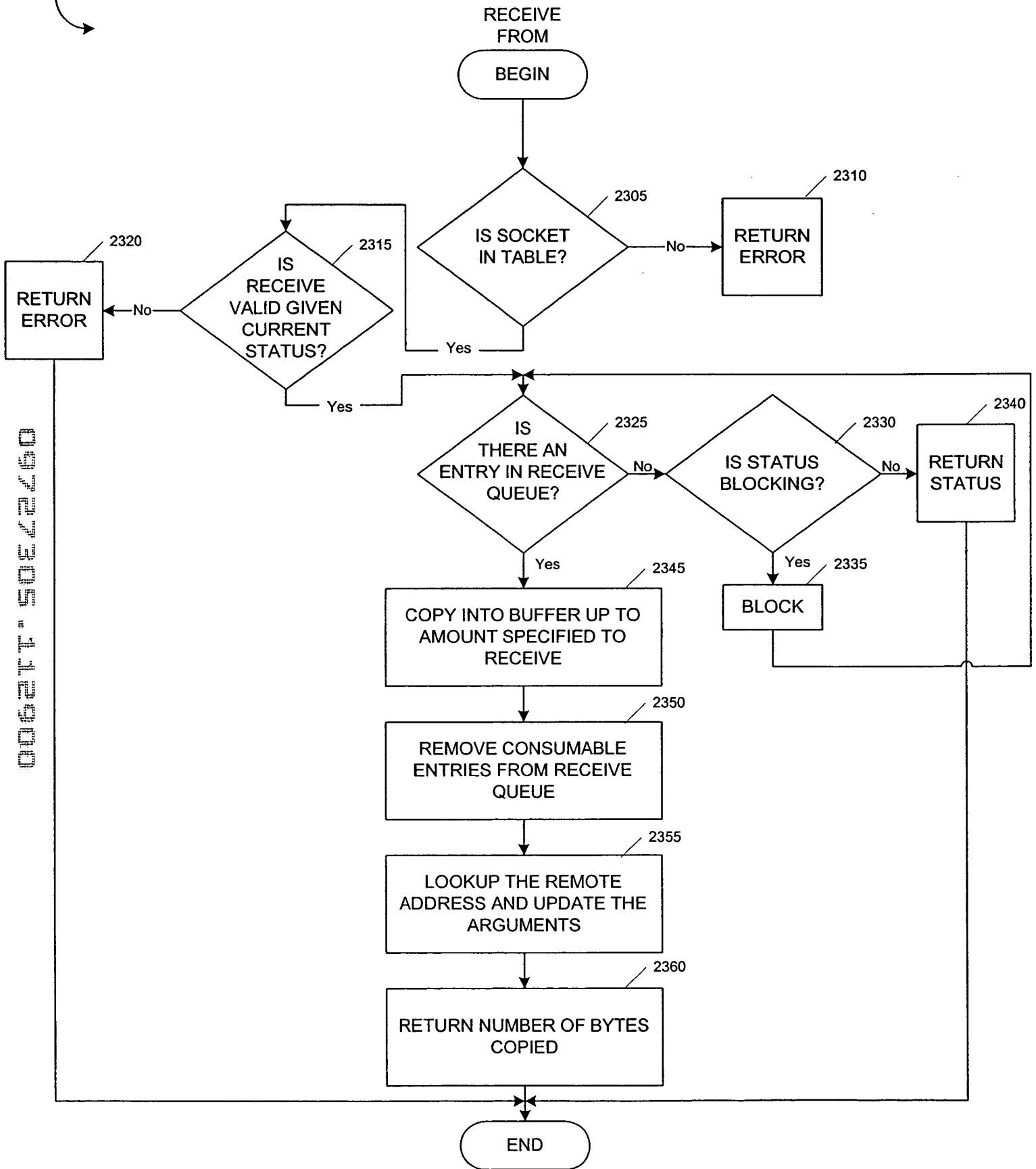


FIG. 23

FFF

00627150E2260

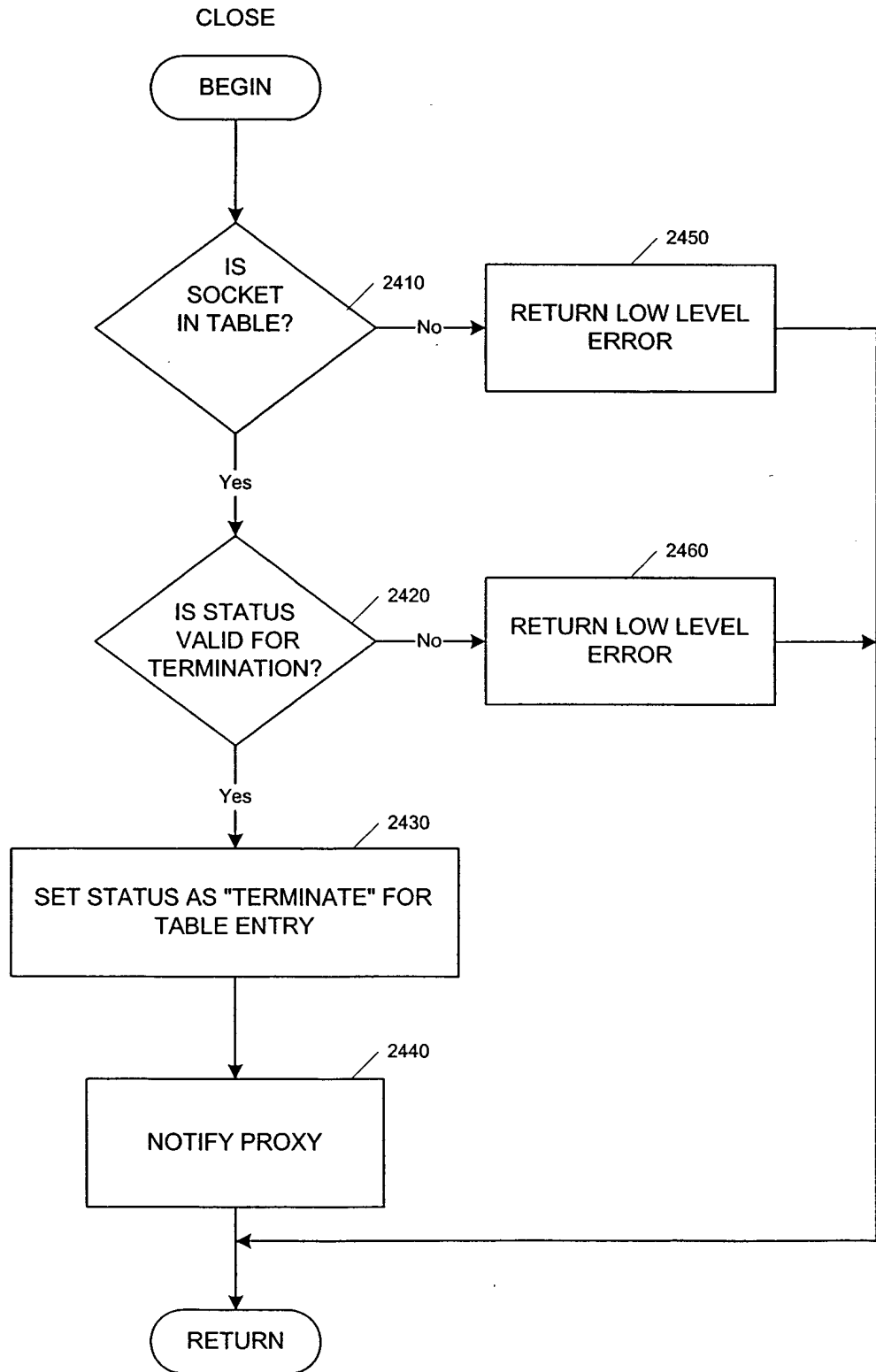


FIG. 24

GGG

0062T 50E/260

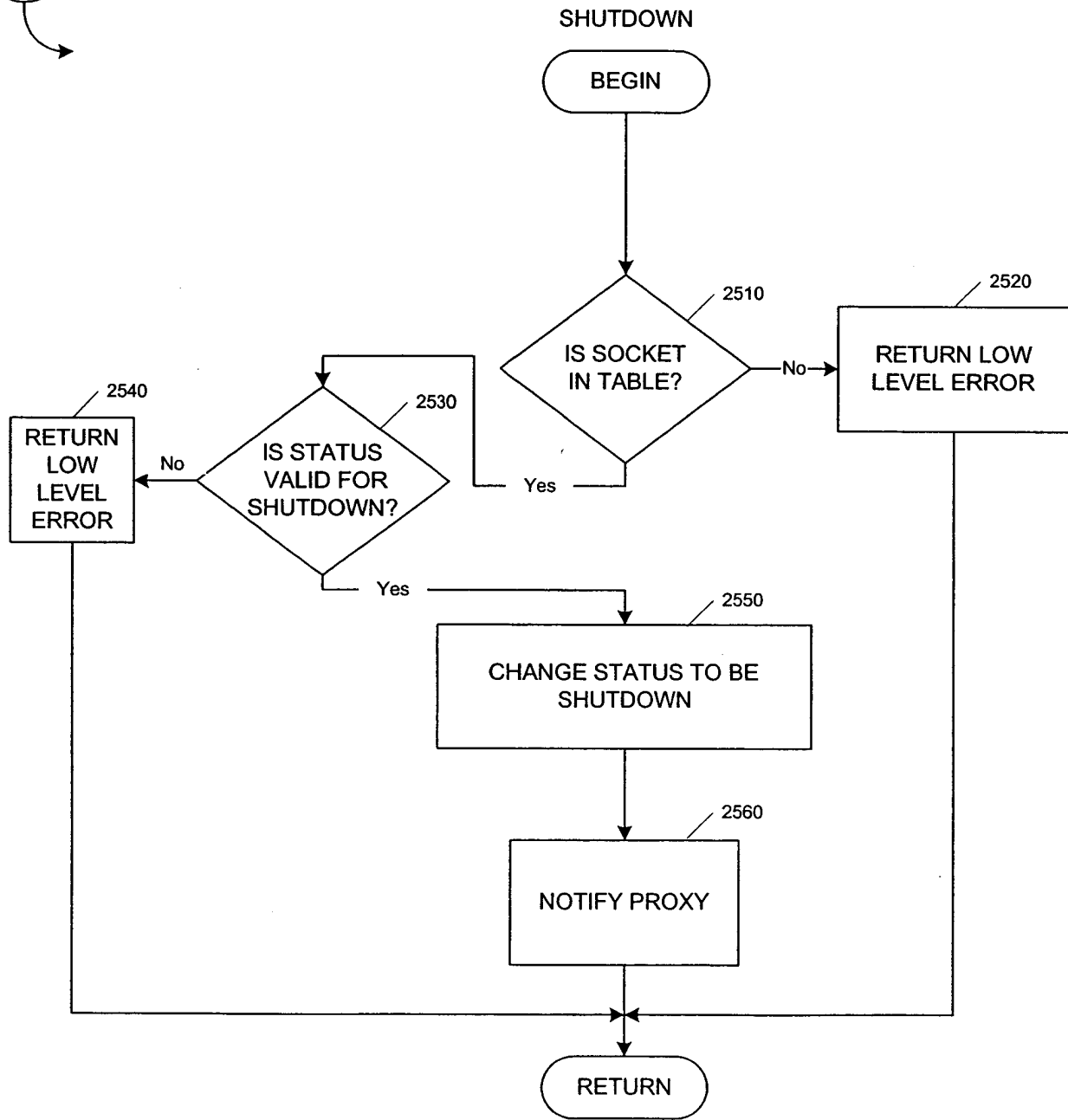


FIG. 25

HHH

09/27/2015 11:29:00

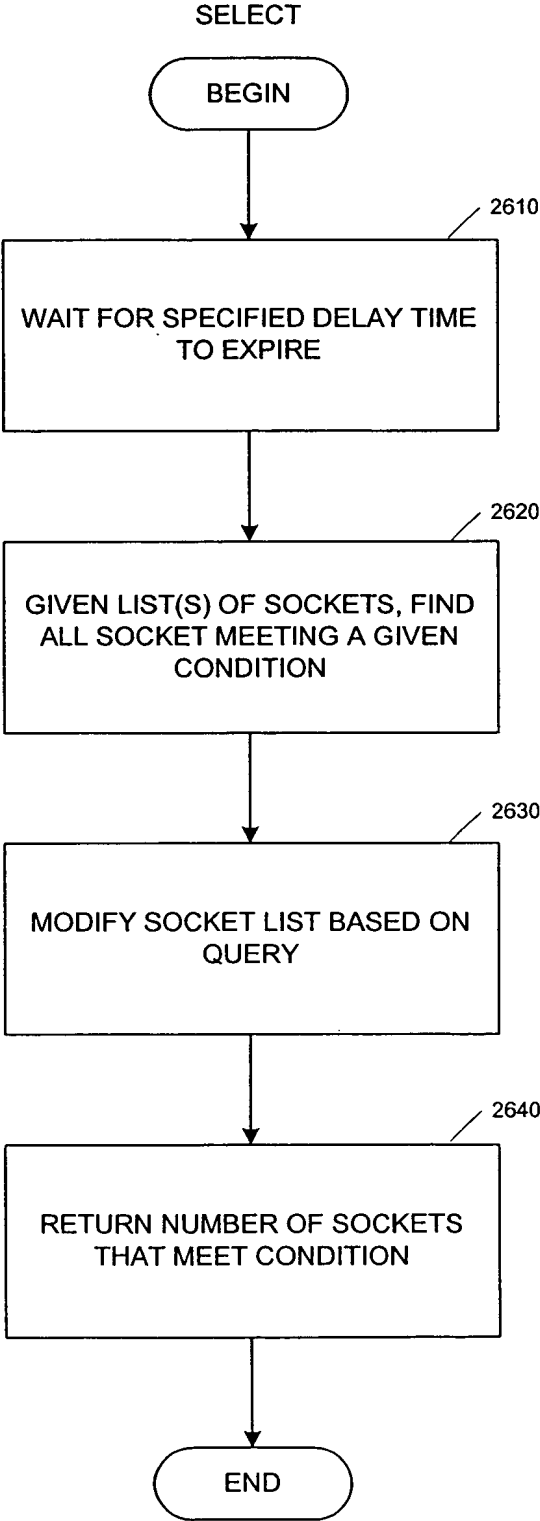


FIG. 26

09727305.112900

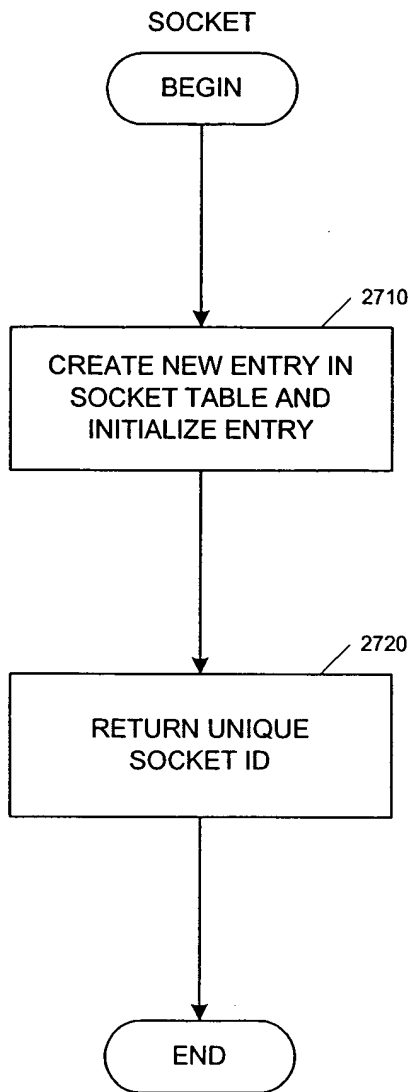


FIG. 27

JJJ

006277 50E2260

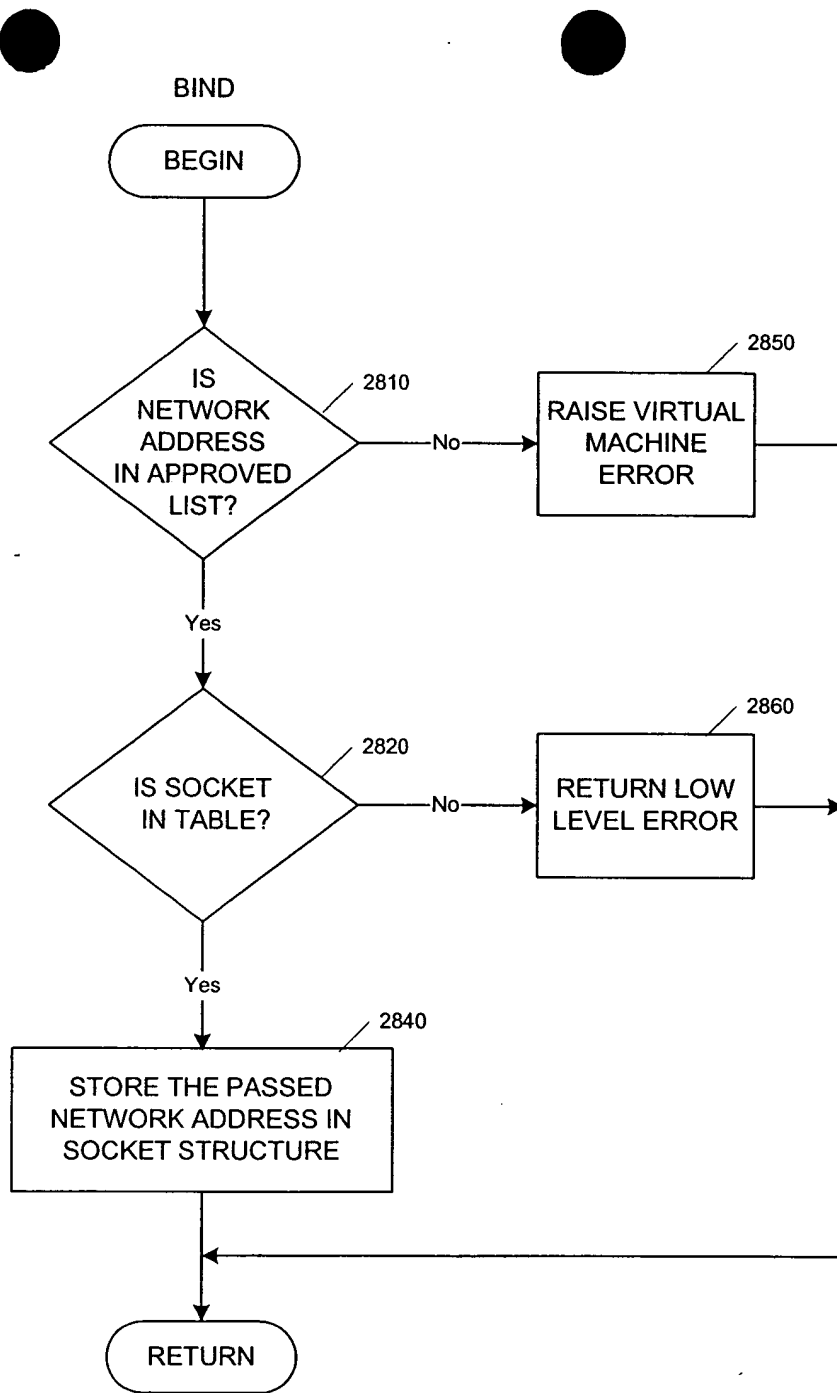


FIG. 28

KKK

00621150E2260

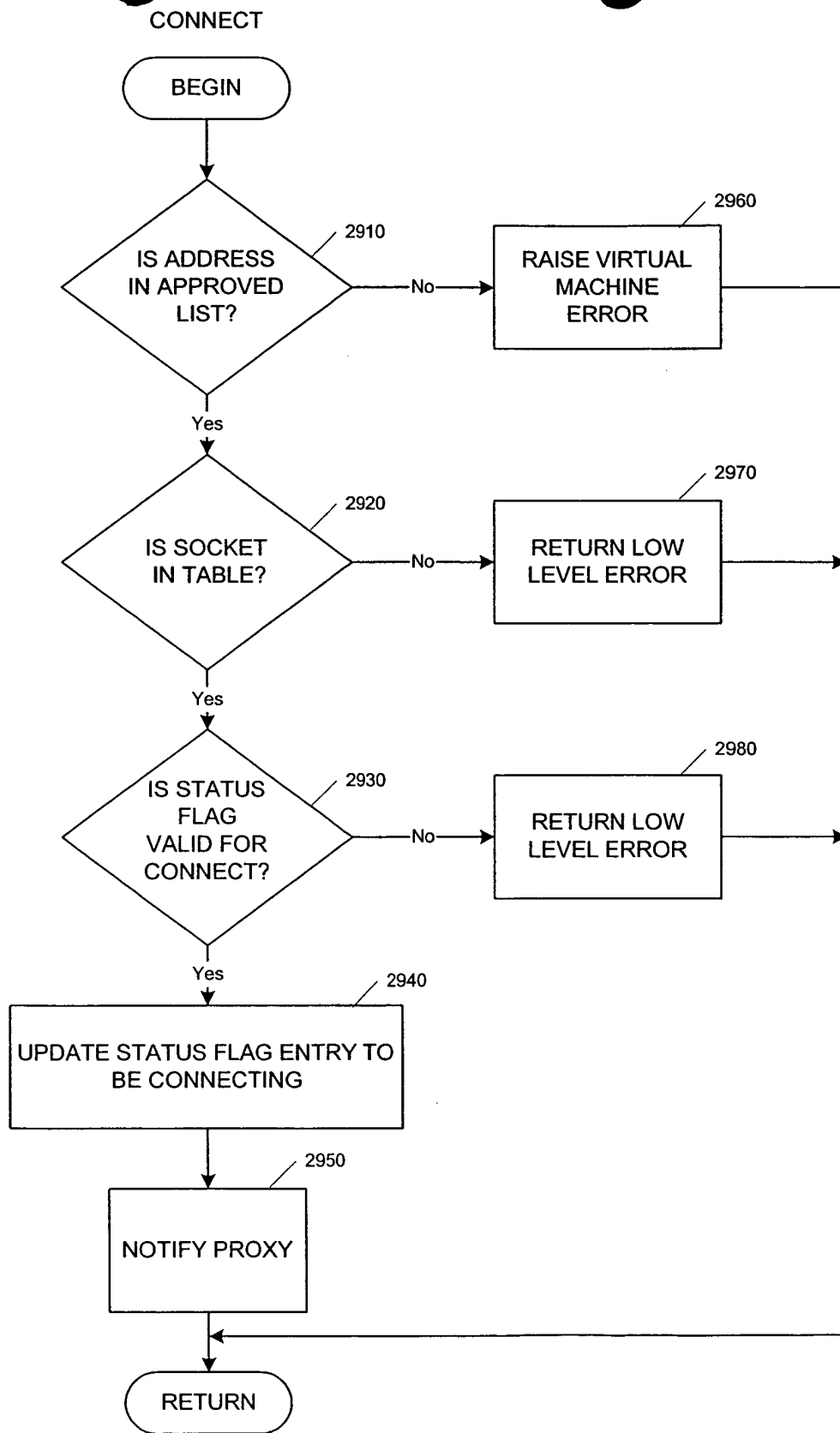


FIG. 29

LLL

09727305-112900

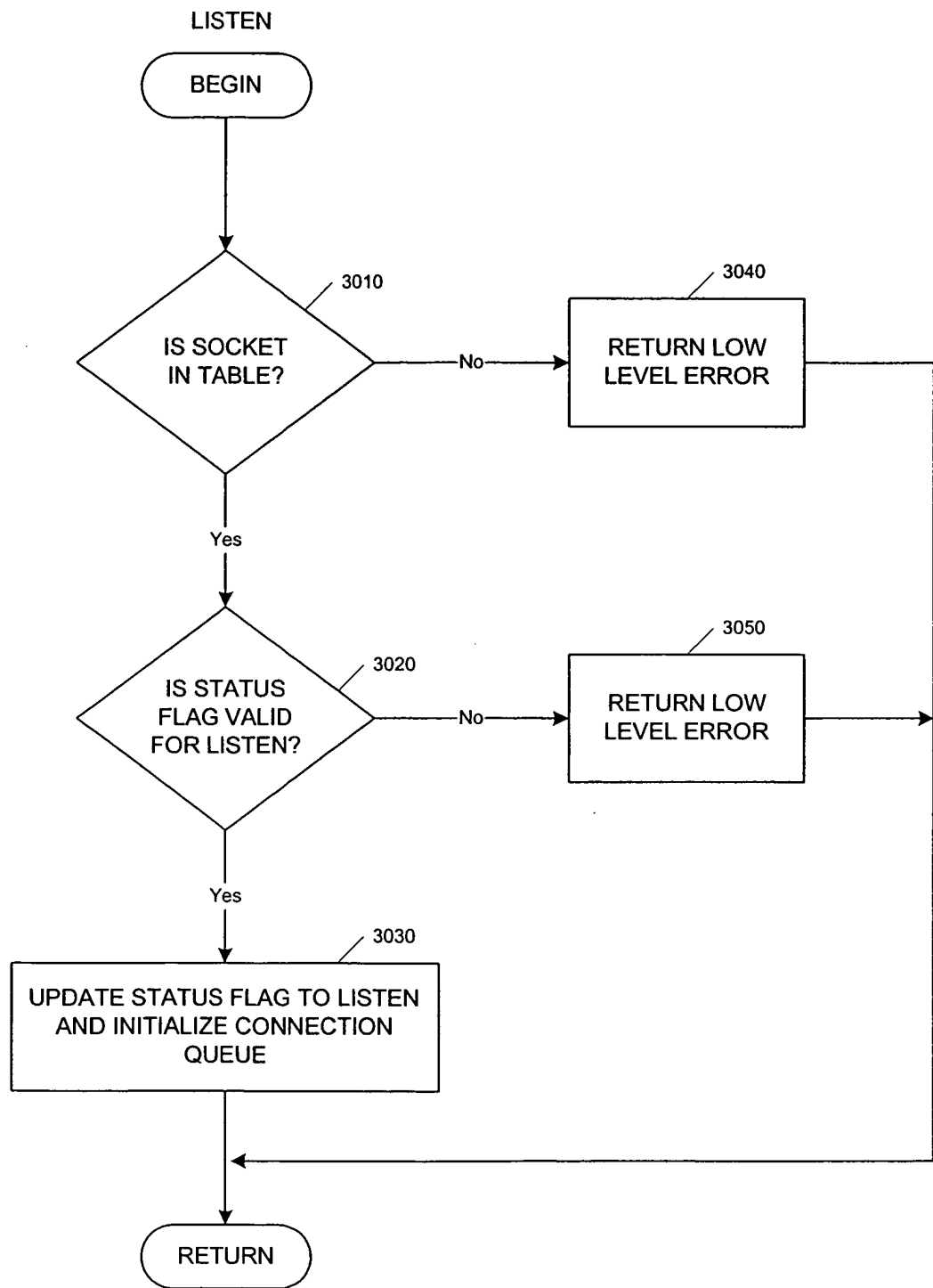


FIG. 30

MMM

09/27/2005 11:29:00

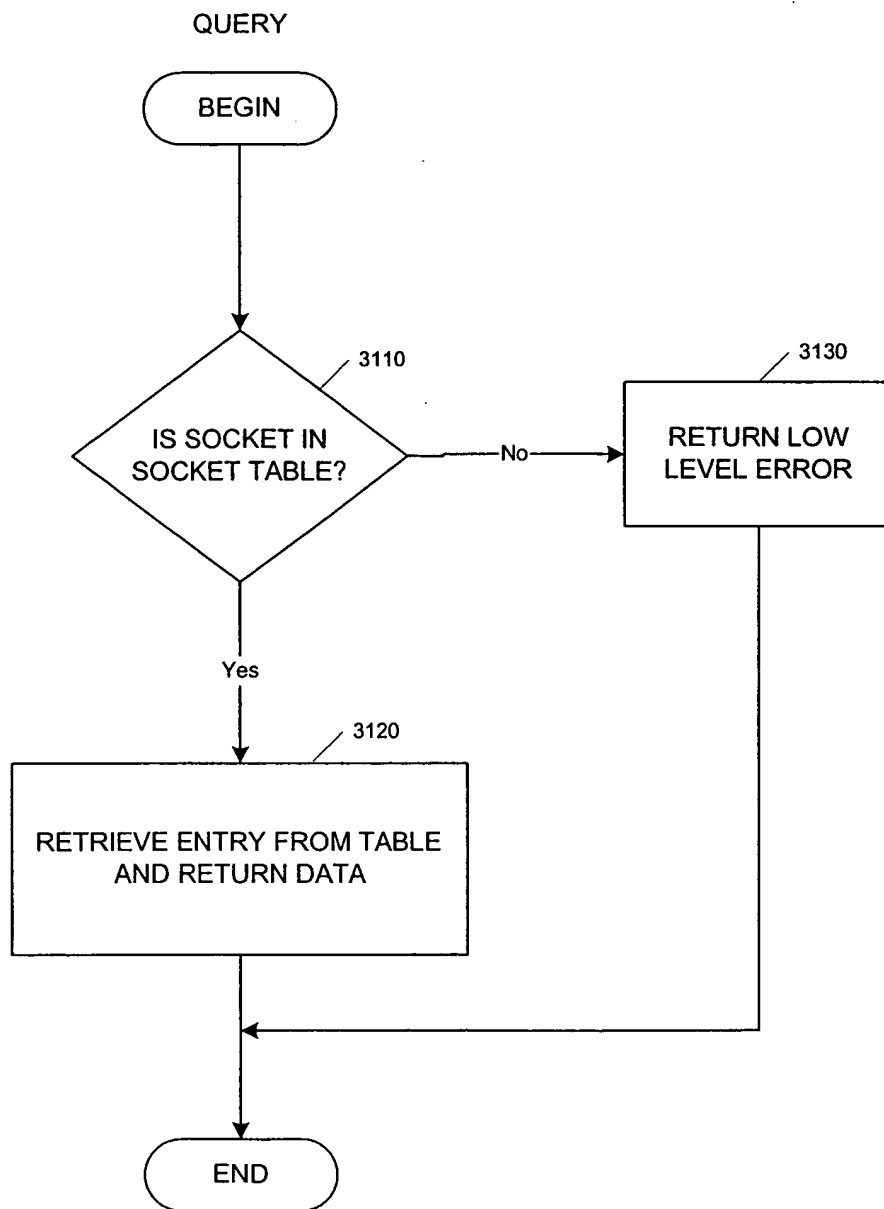


FIG. 31

UPDATE

BEGIN

IS SOCKET ID
IN TABLE?

3210

No

RETURN LOW LEVEL
ERROR

3230

Yes

UPDATE STATUS OF CONDITIONS
OR FLAGS

3220

RETURN

FIG. 32

NNN

00527-50E2260
09727305-112900

006277-50E/2/50

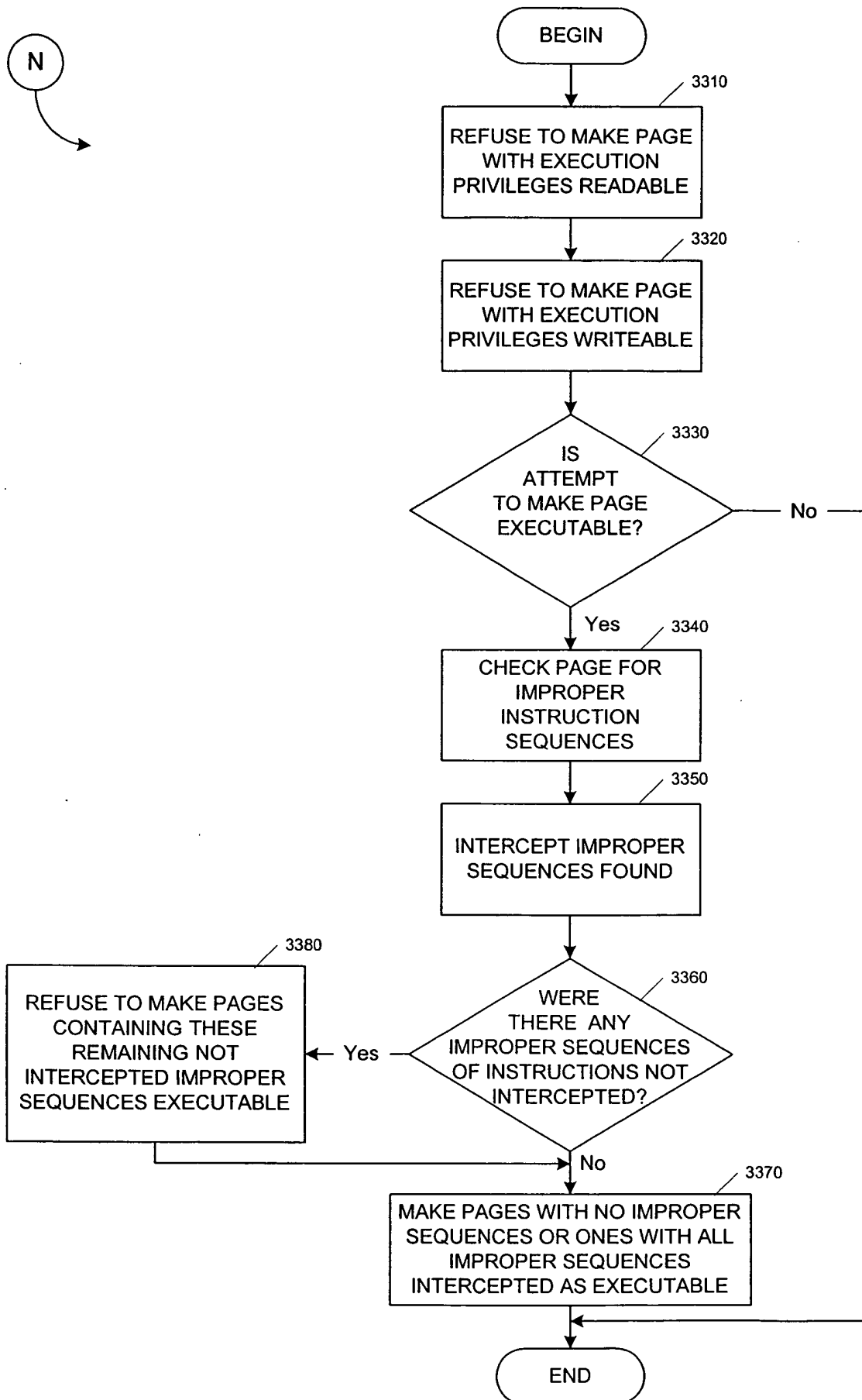


FIG. 33

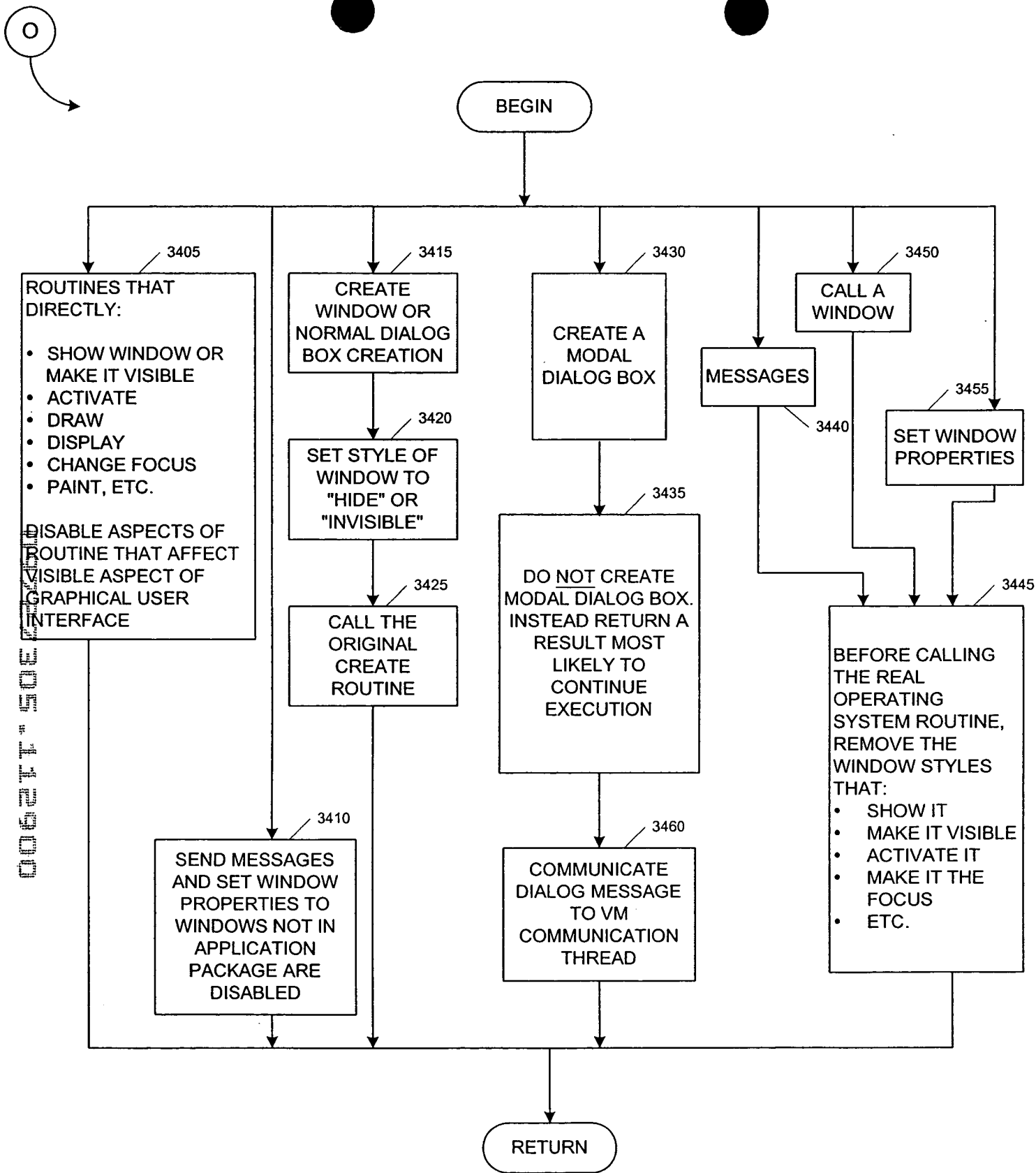


FIG. 34

Q

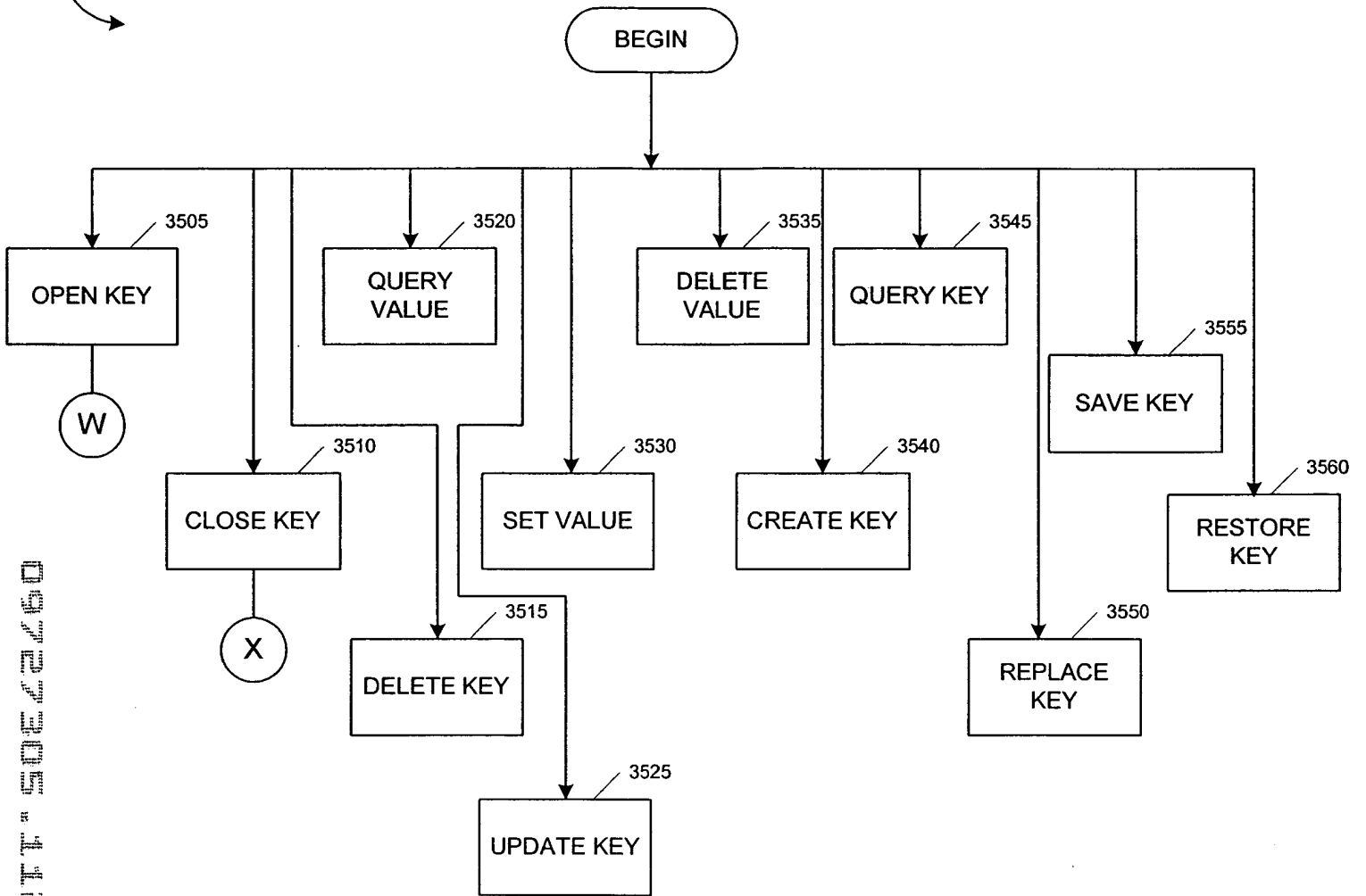


FIG. 35

006371 50E2260

W

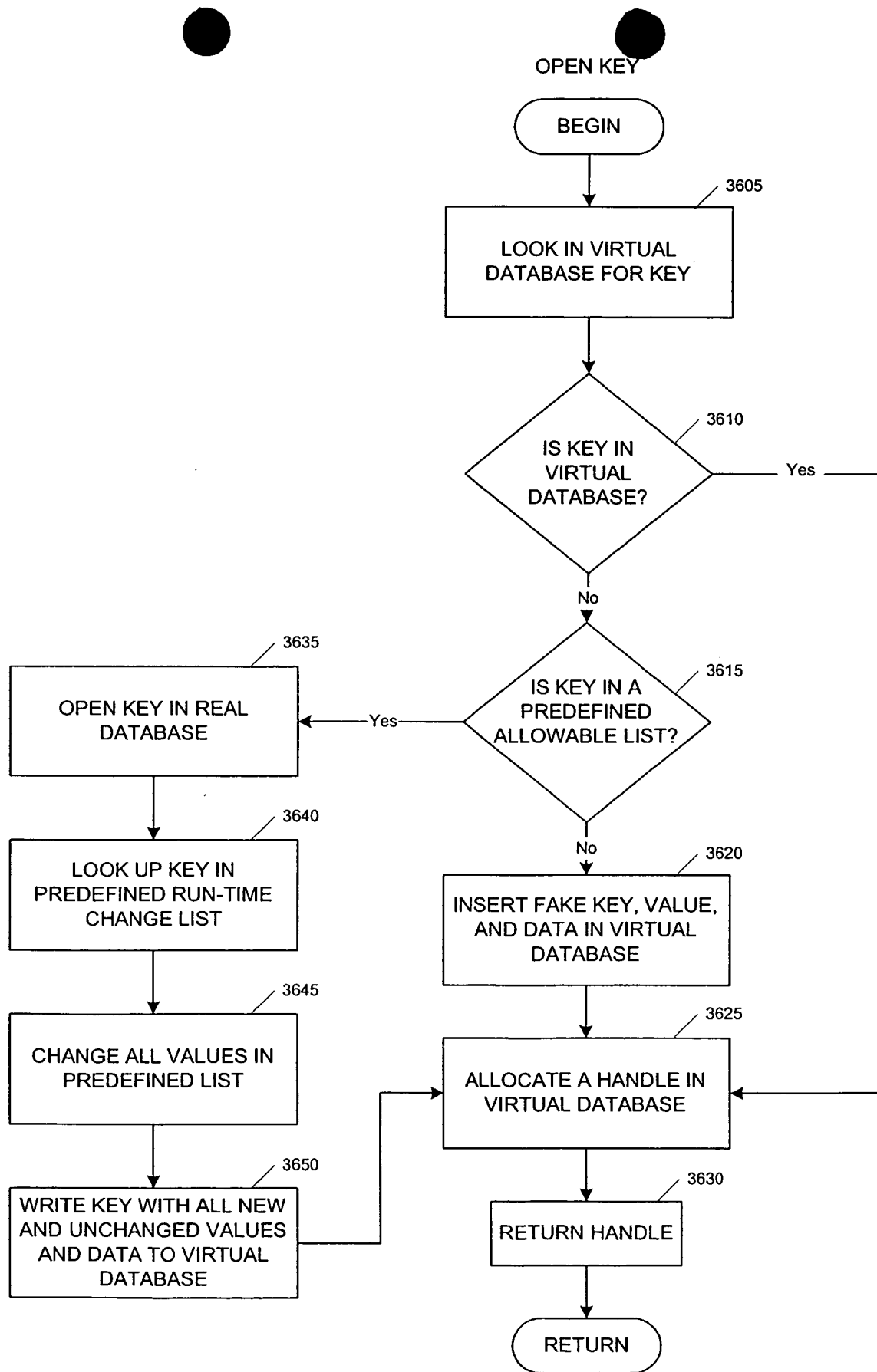
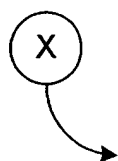


FIG. 36



CLOSE KEY

BEGIN

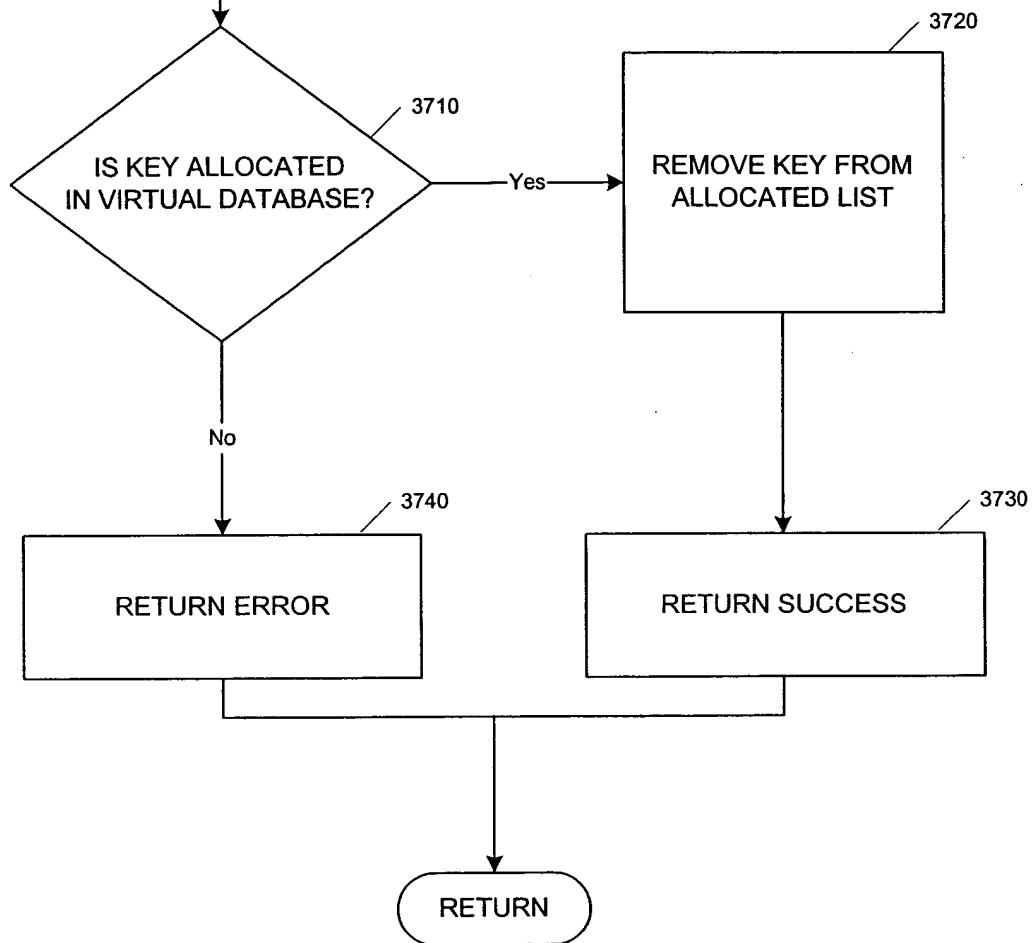


FIG. 37

006277-50E/2260

R

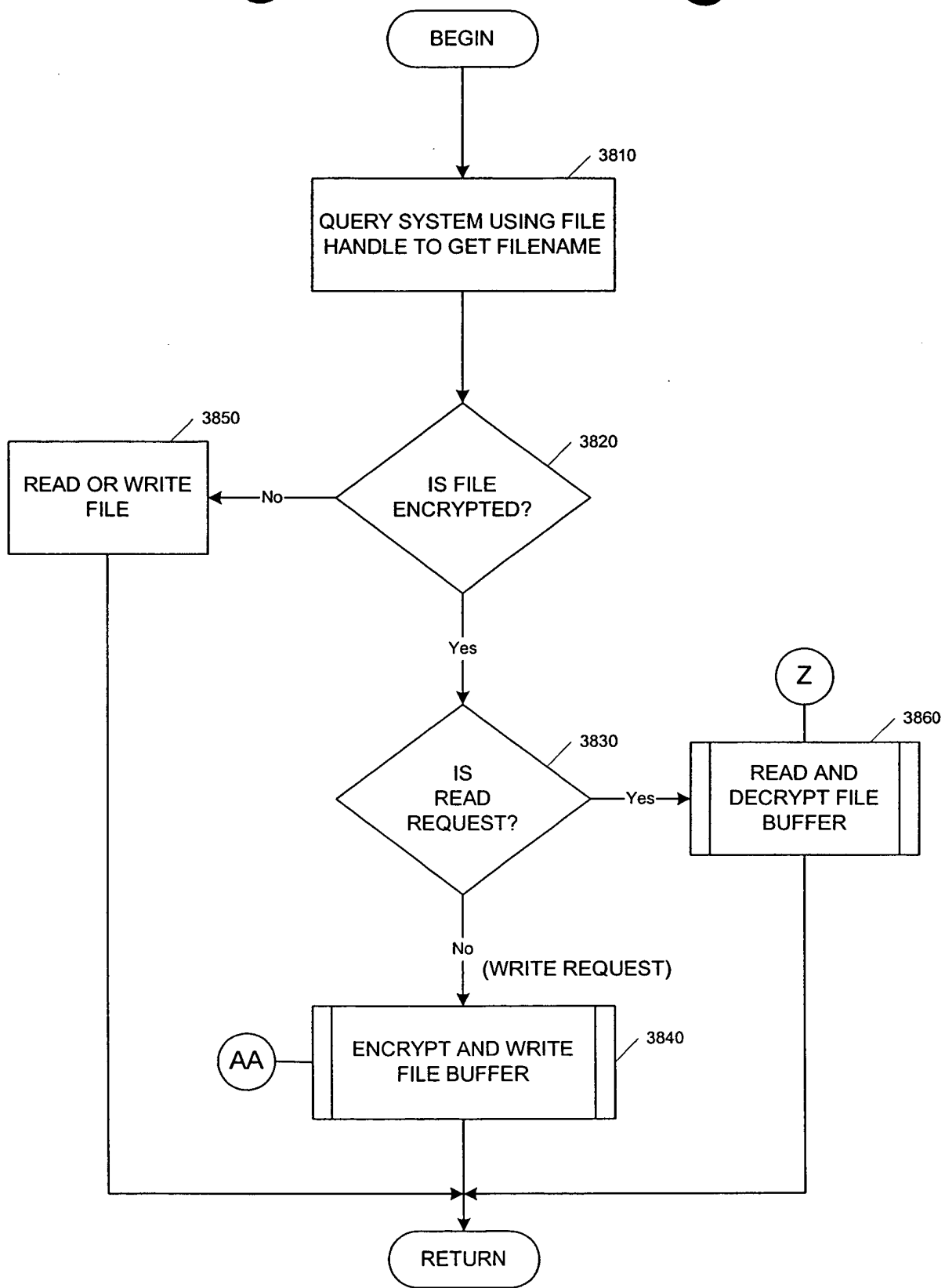


FIG. 38

00627-50E/2260

z

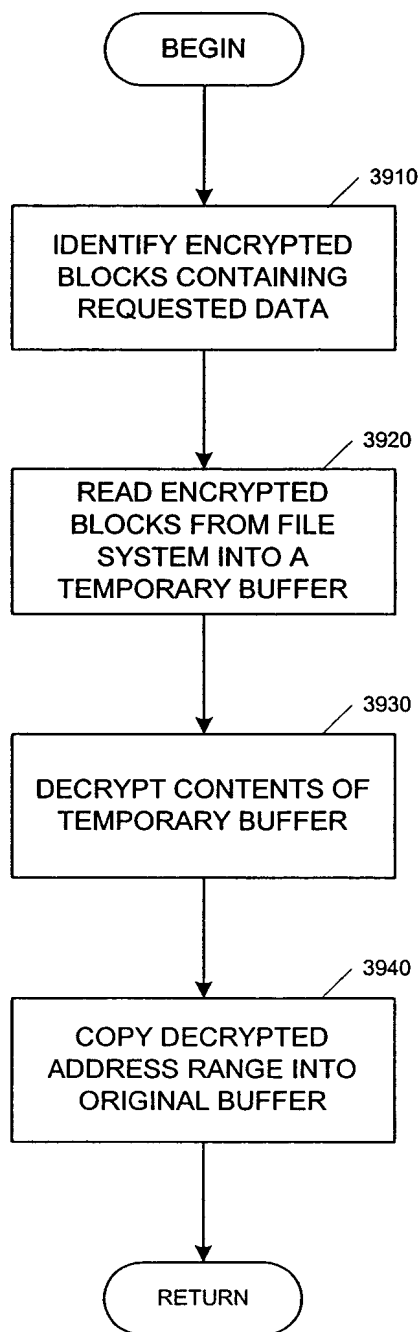


FIG. 39

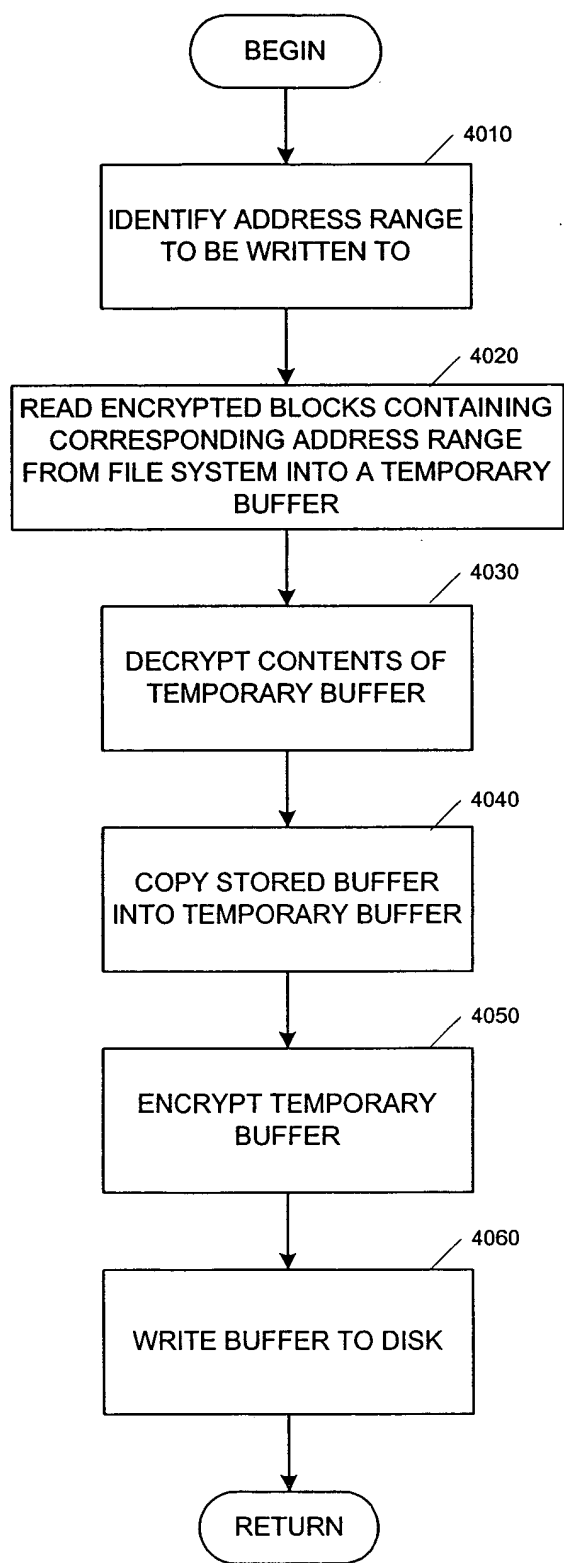


FIG. 40

S

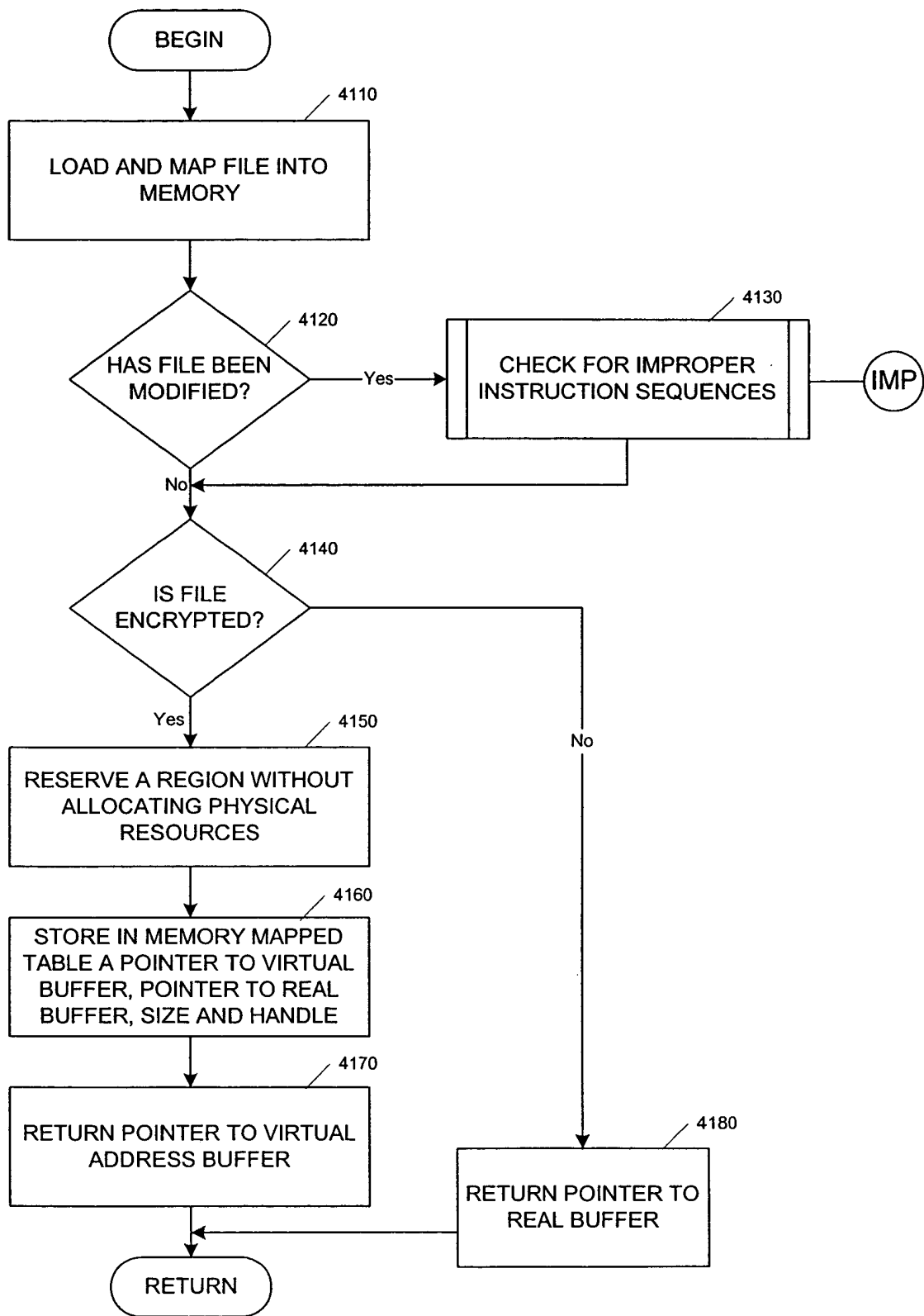


FIG. 41

006217 50E2260

S

ALTERNATE TO FIG.41)

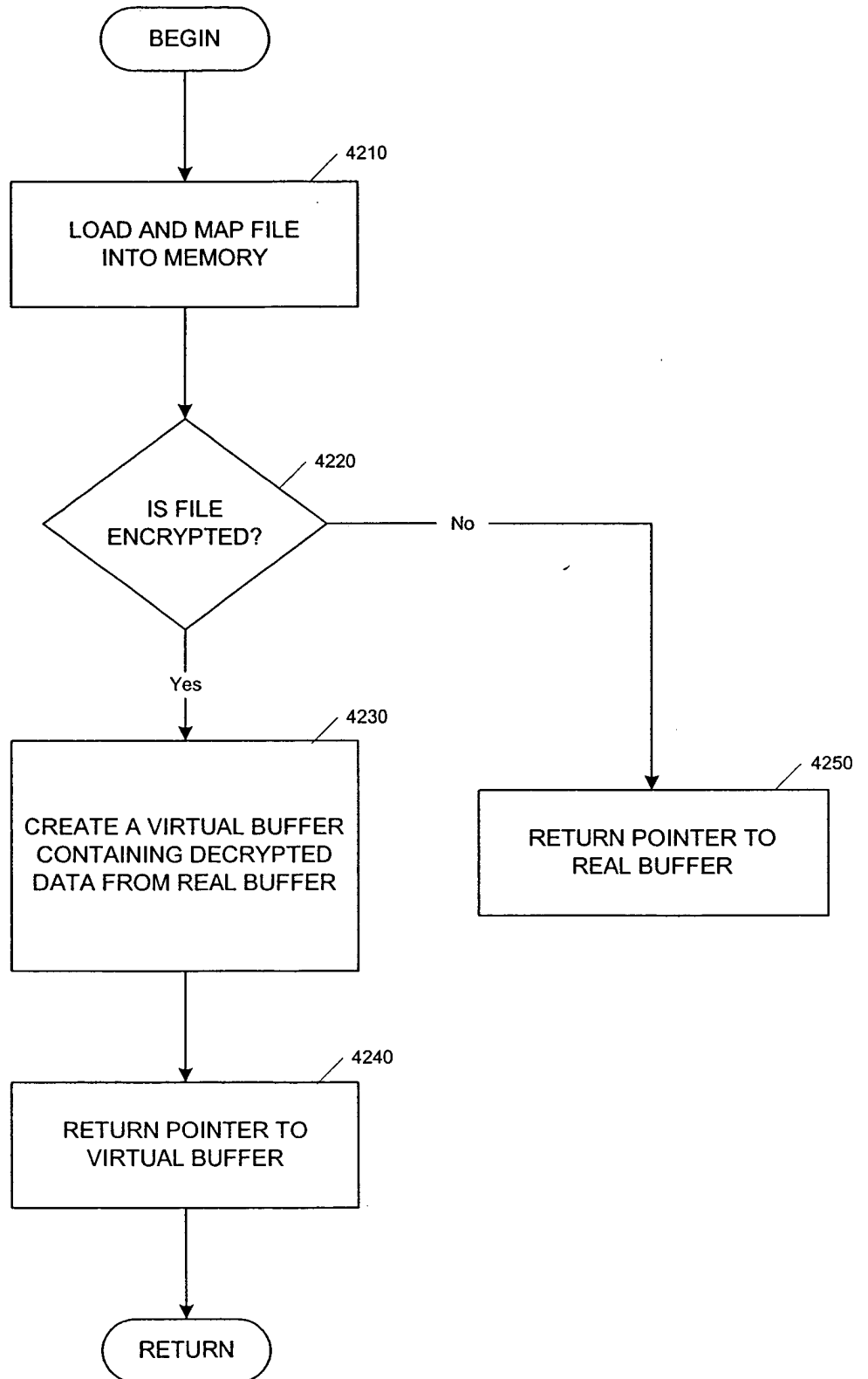


FIG. 42

006211-50E/2/60

00627T"50E2260

T

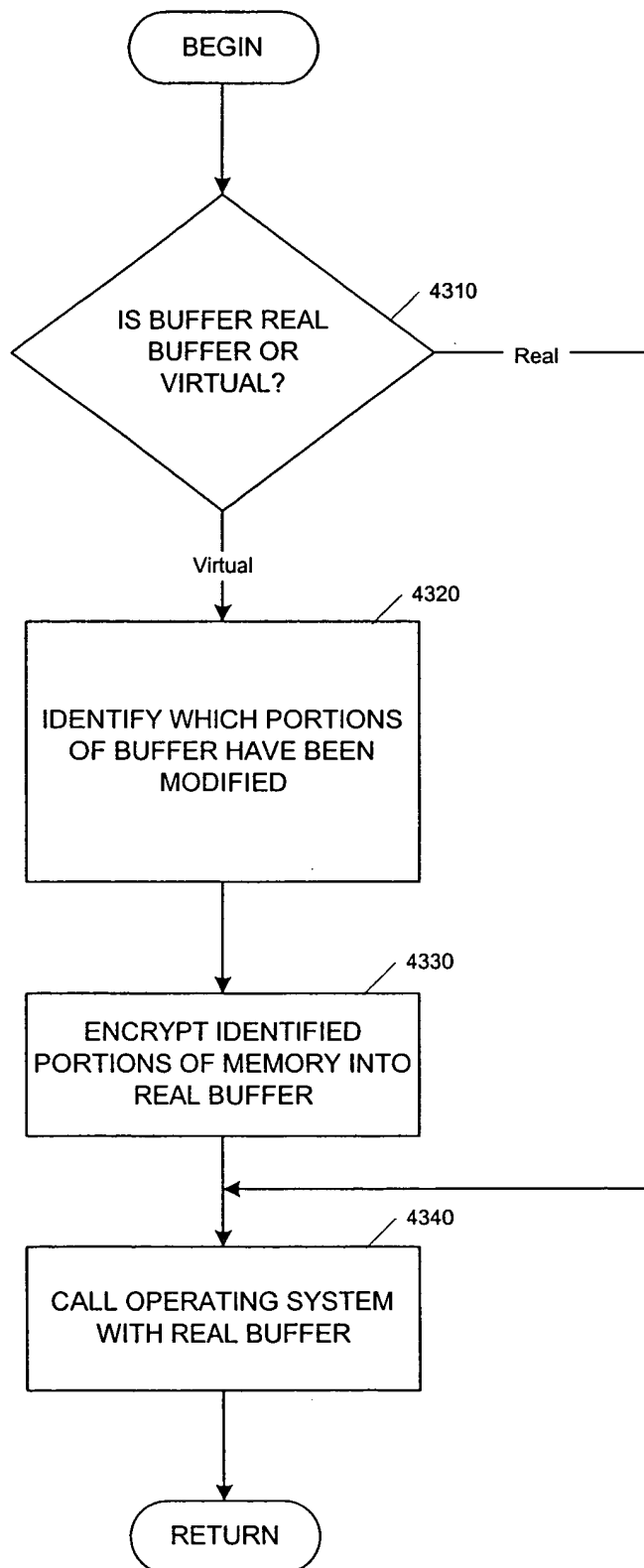


FIG. 43

U

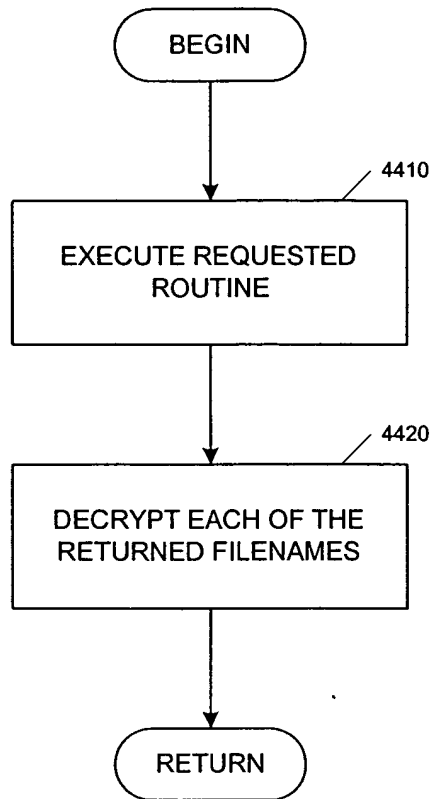


FIG. 44

V

006211" 50E/22450

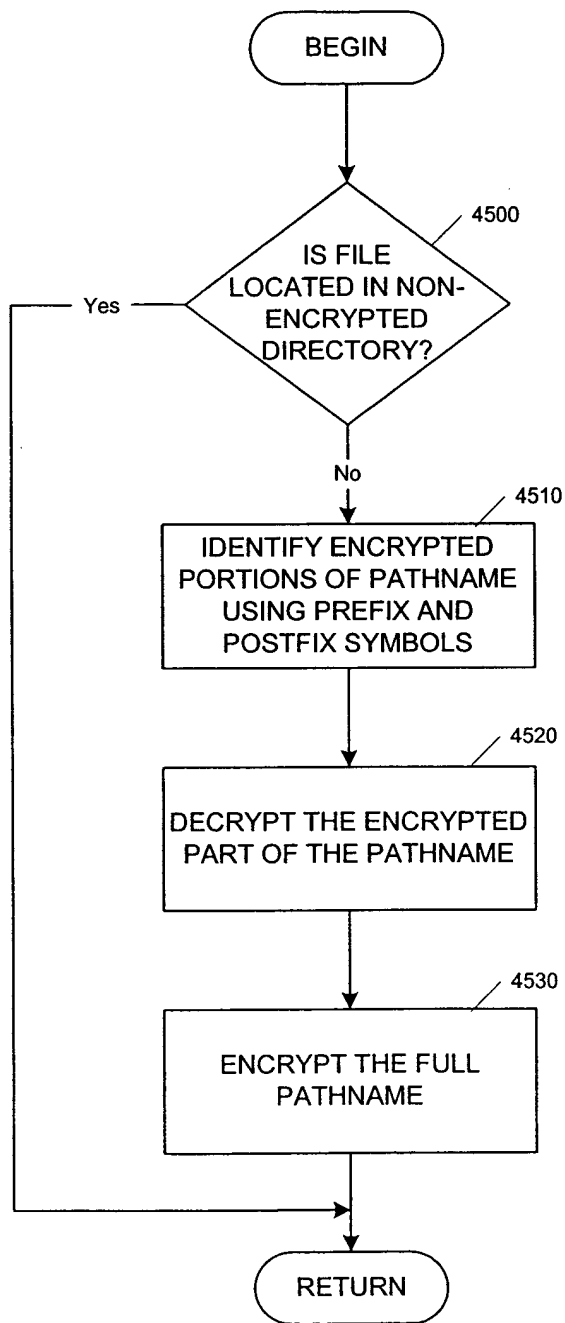


FIG. 45

TRADITIONAL
SYSTEM LAYOUT

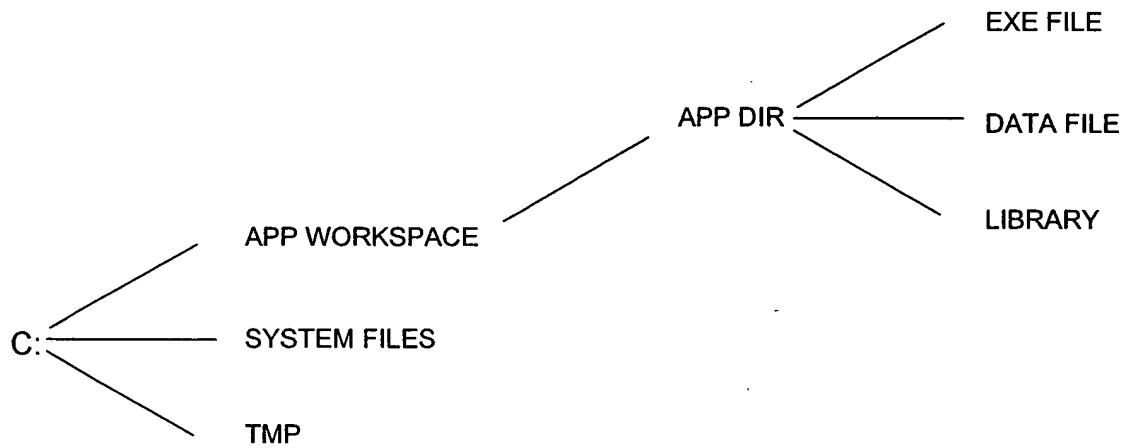


FIG. 46

VIRTUALIZED
SYSTEM LAYOUT

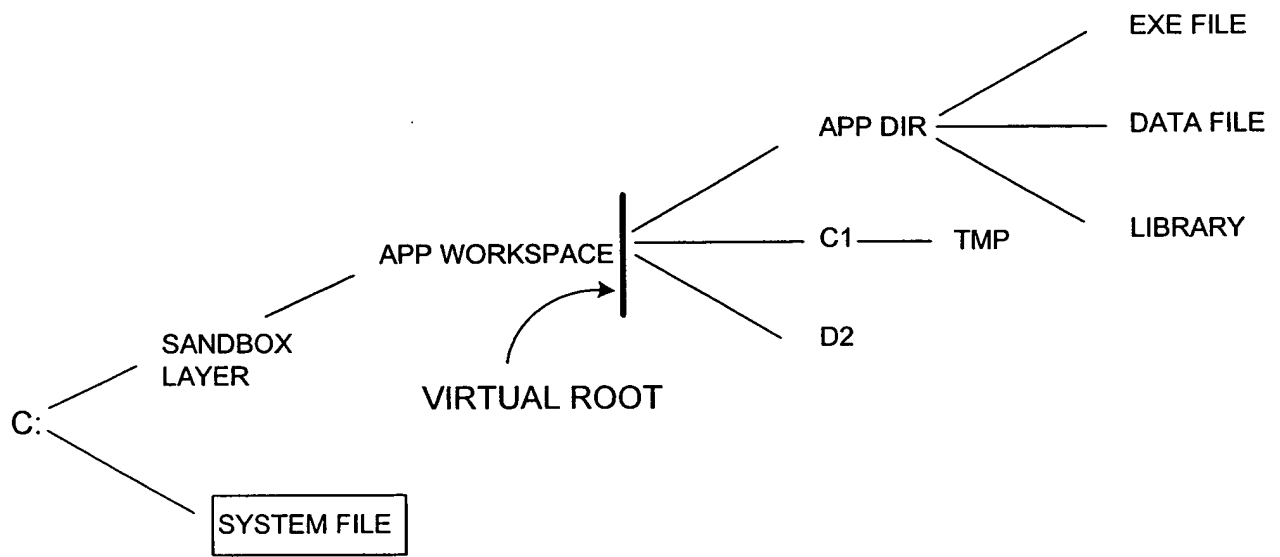


FIG. 47

OBJECT "SOCKET"

SOCKET TABLE

4804 "ENTRY" LOCAL SOCKET STRUCTURE	4812 REMOTE SOCKET STRUCTURE	4816 SOCKET STATUS	4820 SOCKET OPTIONS	4824 SEND QUEUE	4828 RECEIVE QUEUE	4832 CONNECTION QUEUE

4800

SOCKET STRUCTURE

- UNIQUE SOCKET ID
 - SOCKET TYPE
 - PROTOCOLS
 - OPTIONS
 - NETWORK ADDRESSES
 - EVENT
 - FAMILY
 - BLOCKING

SOCKET STATUS

- UNCONNECTED
 - RECEIVING
 - SENDING
 - LISTENING
 - CONNECTED
 - DISCONNECTED
 - TERMINATED
 - SHUTDOWN
 - BOUND
 - CONNECTING

FIG. 48

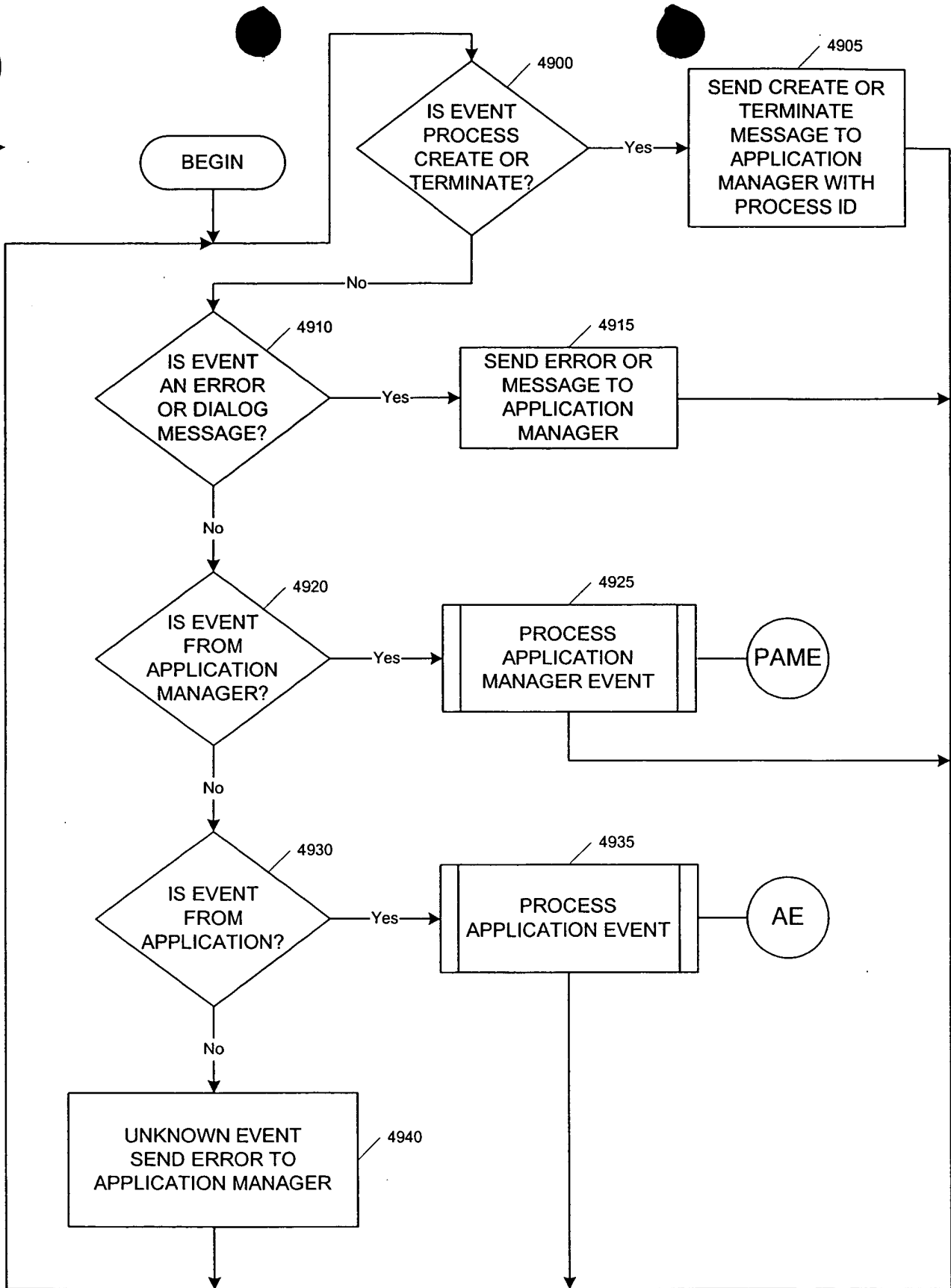


FIG. 49

00521T" 50E2260

PAME

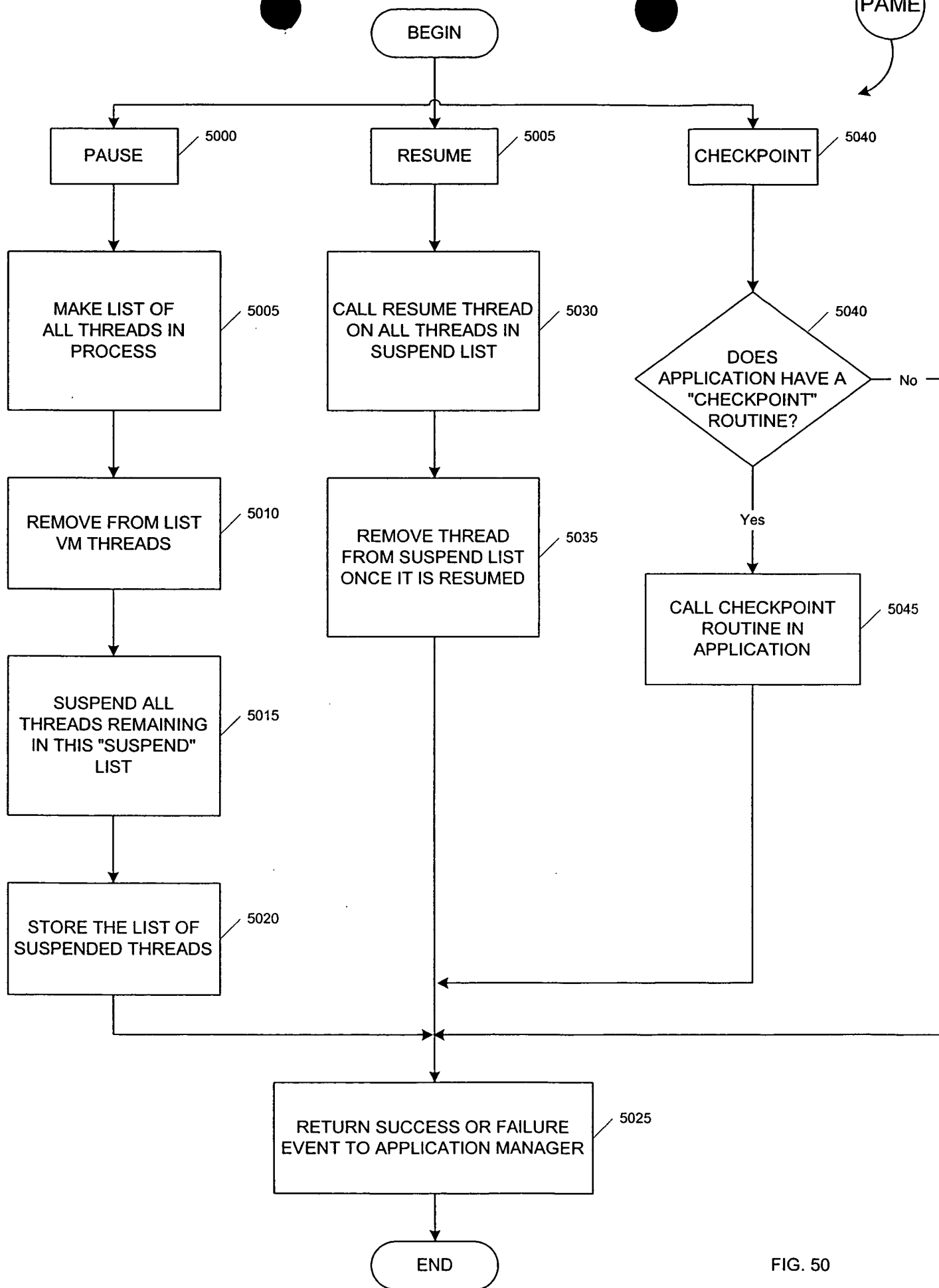


FIG. 50

09727305.112900

AE

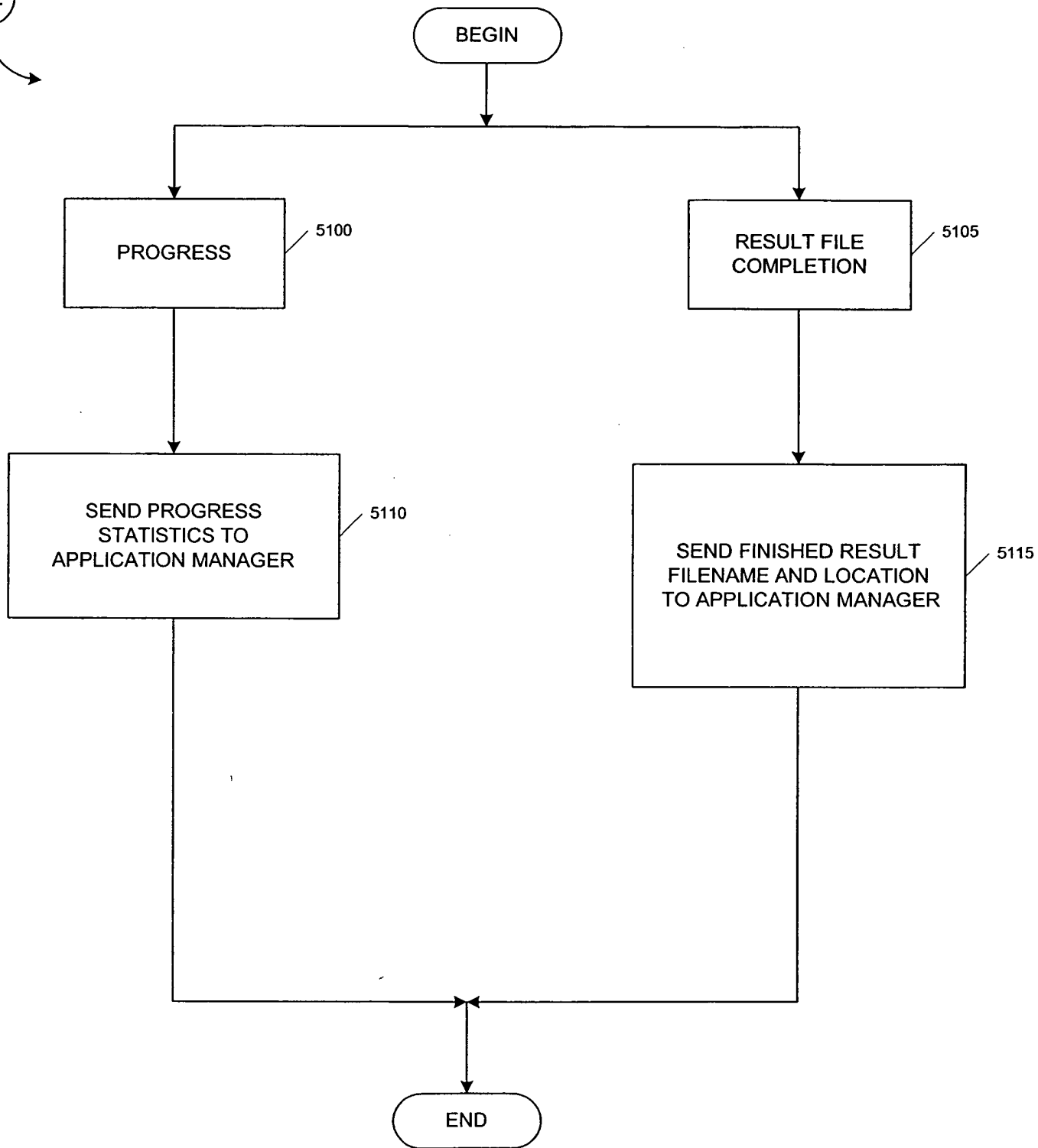


FIG. 51